1. 5007 Richard I Allton

2314567890E	6	19	
41236578E90		a	
2134	-	2	A
3142	-	2	
3142658709E		b	
2134		A	
21346587E90		c	B
4123		A	
4123657809E		b	
3142		A	
31246587E90		d	
2143	-	2	
2143658709E		B	

a = 1.5.7.8.10.11.13.15.16 (20)
b = 2.s13.s15
c = 2.s15
d = 2.s9.s13.s15.18

2. 5007 Richard I Allton

2314567890E	1	6	19	
214365		a		
4132		-	2	
3124		-	2	
213564		-	-	
21436578E90	-		-	
4132		-	2	A
3124		-	2	
3142		s	2	
4123		-	2	
2134		-	2	
2134658709E		b		
3142		-	2	
4123		-	2	
41236587E90		c		
4132		A		
4132658709E		c		
3124		-	2	
2143		-	2	

a = 5.7.8.10.11.s13.15.16 (20)
b = 2.s13.s15
c = 2.s15

3. 5019 Richard I Allton

2314567890E	1	6	9	18	19	
31245678E90			a			
2134		-			s	A
2143			s	-		
4123		-			s	
4132			s	-		
3142		-			s	
314265			b			
3124			A			
3124657890E			c			
3142			A			
31246587			d			
2143		-			2	
2134			s	-		
31246587E90	-	-			s	
3142			s	-		
4132		-			s	
4123			s	-		
2143		-			s	
2134658709E			e			
3142		-			2	
4123		-			2	
4132		s			2	
3124		-			2	
2143		-			2	

a = 1.6.s7.s19
b = 2.3.7.8.s10.11.12.15.16.20.21
c = s10.s13.22
d = s2.s9.s13.s15.18
e = 2.s9.s15.18

4. 5019 Richard I Allton

2314567890E	6	19	
21345678E90		a	
3142	-	2	A
4123	-	2	
4132	s	2	
3124	-	2	
2143	-	2	
2143568709E		b	
4123	-	s	B
416253		-	
413256		s	
3142	-	s	
316452		-	
312456		s	
2134	-	s	
21436587E90		c	
2134		B	
2134658709E		d	
2143		A	

a = 1.s4.17
b = 2.s13.s15
c = 2.s3.s8.9.10.s12.s15.18.s21
d = 2.s15

5. 5021 Richard I Allton

```
2314567890E
_____
32415678E90  1.4.5.6.7.9.12.14.15.16.17.18.21.s25.26.27.s30.36.39 (40)
_____
4312          3x |A
_____
3421         4.5.6.7.9.12.14.15.16.17.18.21.s25.26.27.s30.36.39 (40)
2314           A
13579E24680  s1.5.s7.8.9.s11.13.17.19 (20)
531246E9780  1.2.5.6.7.10.13.s15.16.17.20
1352648709E  2.3.4.s7.8.s16.17.19.21.23.24 (24)
21537486E90  s2.3.s9.12.15.16
2143657890E  s3.4.7.s9.10.15.18.20.s24.26 (28)
1234           y
21436587E90  1.s2.s7.s9.s13.s15.18
1234           y
E0987654321  2.3.5.6.s8.9.10.13.17.19.20.21
13254768 90E  s2.3.5.6.s8.9.10.13.17.19.20.21
123457       5.6.7.8.s10.11.s13.15 (20)
2143657809E  s1.4.7.8.10.11.12.13.14.16 (20)
1234           y
214356       4.7.8.10.11.s13.14.16 (20)
1234           w
6543217890E  s4.5.7.s10.s12.s15.19.22.23 (24)
3124658709E  s1.2.s6.10.13.15.22.24 (32)
_____
2341          3z |B
_____
3214           w
1342           B
_____
w = 3.4.s7.s9.s12.s17.18
x = 4.5.6.7.9.12.14.15.16.17.18.19.21.22.23.24.25.27.s29.31.32.34.38 (38)
y = s7.s9.18
z = 3.4.5.6.7.8.9.s11.13.14.16 (20)
```

6. 5050 Richard I Allton

2314567890E	1	6	9	18	19	
2143658790E	s					
21346587E90	-		s	-		
3142		-			2	
31425678			c			
3124			A			
3124567890E			d			
4132		-			2	
3124		-			2	
3142		s			2	A
4123		-			2	
2134		-			2	
2134658709E			b			
2143			A			
2143658790E	s					
21346587E90	-		s	-		
3142		-			2	
31425678			c			
3124			A			
3124567890E			d			

a = 3.s9.s11.12.13.16.20.s24.26.27 (30)
b = 2.s13.s15
c = 2.3.7.8.s10.12.13.15.16.s21
d = 12.14.15.16.17.18.19 (20)

7. 5100 Richard I Allton

2143658709E	1	6	19	
21436587E90		a		
4132		-	2	A
3124		-	2	
3142		s	2	
4123		-	2	
2134		-	2	
3125648709E		b		
314265			-	B
4123		-	2	
2134		-	2	
21346578E90		c		
2143		A		
4125638709E		d		
214365		B		
213465879E0	2	s	2	
2143		s	2	
2143658709E	-			

a = 2.s3.4.5.7.9.10.11.12.13.14.15.16.18 (18)
b = 2.6.s15.19
c = 2.3.4.5.6.7.9.10.s12.s14.15.16.17 (18)
d = 2.6.s13.s15.19
Start from rounds as the first row of a slow six

14508. 5009 Alan M Barber

2314567890E	6	18	19	
13579E24680		a		
13425678E90		b		
426153	-	-	2	
423156			s	
316452	-	-	2	
312456			s	A
246351	-	-	2	
241356			s	
136254	-	-	2	
1345628709E		c		
132465			-	
245163	-	-	2	
243165			s	B
3124	-	-	-	
31246578E90		d		
315462		A		
3125648709E		e		
314265			-	
1342		B		

a = 1s.12s.13.17.18.19.21s.23s.26s.28.29.32.36 (36)
b = 2.5s.8.10.13.19.21.22.23.25 (28)
c = 2.5.13s.14.15.19
d = 2.13s.15s
e = 2.13s.15s.19

8. 5009 Alan M Barber

2314567890E	6	18	19	
13425678E90		a		
426153	-	-	2	A
423156			s	
316452	-	-	2	
312456			s	
246351	-	-	2	
241356			s	
136254	-	-	2	
1345628709E		b		
132465			-	B
2413	-	-	-	
245361	s			
245163	s		-	
243165			s	
3124	-	-	-	
31246578E90		c		
315462		A		
3125648709E		d		
134265		B		

a = 1s.2.6.8s.10.12s.14s.16.18s.20s (20)
b = 2.5.13s.14.15.19
c = 2.13s.15s
d = 2.13s.15s.19

9. 5016 Alan M Barber

2143658709E	6	18	19		
21436578E90		a			
4321	-	-	-	A	B
4312	s		2		
1243	-	-	-		
1234	s		2		
2134		A			
2153648709E		b			
213465			2		
1234		A			
125364			-		
12465378E90		c			
123456			-		
1243		B			
126453			-		
1235648709E		c			
124365			-		
2143		A			

a = 2.13s.15s
b = 2.13s.15s.19
c = 2.5.13s.14.15.19
Start from rounds as the first row of a slow six

10. 5019 Alan M Barber

2314567890E	6	19	
21435678E90		a	
4123	-	s	A
416253		-	
413256		s	
3142	-	s	
316452		-	
312456		s	
2134	-	s	
216354		-	
2145638709E		b	
215364		2	B
5132	-	2	
314265	-	3	
4123	-	2	
41236578E90		c	
415362		A	
4125638709E		d	
214365		B	

a = 1.4s.9s.17
b = 2.5.13s.14.15.19
c = 2.13s.15s
d = 2.13s.15s.19

11. 5021 Alan M Barber

2314567890E	6	18	19	
31425678E90		a		
426351	-	-	2	A
421356			s	
136452	-	-	2	
132456			s	
246153	-	-	2	
243156			s	
3124	-	-	-	
13579E24680		b		
1354628709E		c		
132465			s	
2413	-	-	-	B
245361	s			
245163	s		-	
243165			s	
3124	-	-	-	
31246578E90		d		
3142		A		
315462			-	
3125648709E		e		
314265			-	
1342		B		

a = s1.3.9.12.13.14.16.17.18.19.20.22.27 (30)
b = 3.5.6.s8.9.12.14.15.16 (16)
c = 1.4.5.6.7.10.11.18.19.20 (20)
d = 2.s13.s15
e = 2.s13.s15.19

Contains all 24 567890E, 5678E90, 6587E90.

12. 5050 Alan M Barber

1342658709E	6	19	
21435678E90		a	
4123	-	s	A
416253		-	
413256		s	
3142	-	s	
316452		-	
312456		s	
213654	-	-	
214653		s	
216354		2	
2145638709E		b	
413562	-	3	B
312564	-	3	
213465	-	-	
21346578E90		c	
215463		A	
2135648709E		d	
214365		B	

a = 4.5.6.8.10.11.14.15.16.19.s21.24.27 (28)
b = 2.5.s13.14.15.19
c = 2.s13.s15
d = 2.s13.s15.19
Start from rounds as the third row of a slow six

13. 5070 Alan M Barber

213547698E0	1	6	19
41326578E90		a	
415362			-
412365			s
2143		-	s
21436587		b	
2143657890E		c	
21546378E90	-		-
213465			s
3124		-	s
315264			-
314265			s
3154628709E		d	
314265			2
4123		-	2
215364		-	3
21435678E90		e	
216453			-
213456			s
3124		-	s
316254			-
314256			s
4132		-	s
416352			-
412356			s
416253			-
4132658709E		f	
315264		-	3
5123		-	2
214365		-	3

a = 1.4.7.s9.s11.13.s16.17.s29 (32)
b = s1.3.13.14.16.17.18.19 (20)
c = 2.s10.s13.s15
d = 2.s13.s15.19
e = 2.5.s13.14.15.s19
f = 2.5.s6.s13.14.15
Start from rounds as the first row of a quick six

14. 5101 Alan M Barber

1234567890E	6	19	
21435678E90		a	
4123	-	s	A
416253		-	
413256		s	
3142	-	s	
316452		-	
312456		s	
213654	-	-	
214653		s	
216354		2	
2145638709E		b	
413562	-	3	B
312564	-	3	
213465	-	-	
21346578E90		c	
215463		A	
2135648709E		d	
214365		B	

a = s1.2.13.14.s16.17.18.20.22.25.28.31.32.34 (36)
b = 2.5.s13.14.15.19
c = 2.s13.s15
d = 2.s13.s15.19
Start from rounds as the last row of a quick six

15. 5000 Dale Barton

1234567890E	1	5	6	14	19	
41235678E90			a			
2134			-		2	
316452			-		3	A
312465		-	s	s	3	
2143			-		2	
4132			-		2	
2134658790E			b			
3142658709	s		-		2	
4123			-		2	
4132			s		2	
3124			-		2	
2143			-		2	
314265789E0			b			
41236578E9	s		-		2	
312456			A			
3124567890E			z			

a = 1s.2.7s.9s.15.16.18
b = 1s.7s.9s.13s.15.16.22
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a quick six

16. 5005 Dale Barton

1234567890E	1	6	19	
21346578E90		a		
3142		-	2	
415263		-	3	
413265		s	3	A
3124		-	2	
2143		-	2	
21436587E09		b		
413265879E0	-	-	2	
2134		A		
3142658709E	-	-	2	
2143		A		

a = 1.4.8.9.10.11.13 (20)
b = 13s.15s.22
Start from rounds as the last row of a quick six

17. 5007 Dale Barton

2314567890E		6 19	
21436578E90		a	
415362	-	3	A
5134	-	2	
312465	-	3	
3142	s	2	
415263	-	3	
5124	-	2	
213465	-	3	
2134658709E		b	
2143		A	

a = 1.5.7.8.10.11.13s.15.16 (20)
b = 2.13s.15s

18. 5017 Dale Barton

1234567890E	1	6	18	19	
34615278E90	-	-	-	2	
342156				s	
216354		-	-	2	
214356				s	
436251		-	-	2	A
431256				s	
126453		-	-	2	
125364			a		
123465				2	
435261			A		
431265				s	
125463		-	-	2	
2153648709E			b		
213465				2	
435162			A		
432165				s	
2143		-	-	-	

a = 5.6s.14s.19
b = 2.6.7.13s.15s.19
Start from rounds as the last row of a quick six

19. 5052 Dale Barton

```
 1234567890E  1  6  7 18 19
 ____________________________
 123564879E0     a
 124365                  -
 ____________________________
 4312            -     -  -  |
 3421            -  -     2  |A
 2134            -     -  -  |
 ____________________________
 21436587E90  9.10.18
 1234            A
 2153648709E  2.15.16.19
 213465                  2
 1243            A
 1243657890E     b
 43126578E90  -  -     -  -
 3421            -  -     2
 2134            -     -  -
 123456          c
 2143            A
 1243567809E  2.15.16
 2134            A
 2143567890E  9.10.18
 1234            A
 ____________________________
```

a = 2.5.6.7.9.10.13.14.15.18.19.21.22.23.27.29.31.32 (32)
b = 2.12.14.16.17.18.19 (20)
c = 5.8.9.10.11.13.15 (20)
Start from rounds as the last row of a quick six

20. 5069 Dale Barton

3124567890E	1	6	19	
21536478E90		a		
5132		-	2	
314265		-	3	
4123		-	2	
2134		-	2	
2134658709E		b		A
315462		-	3	
5143		-	2	
412365		-	3	
4153627890E		c		
51346278E90	-	-	2	
2143658709E		A		

a = 1s.7.9.14s.16s.22.26.29s (32)
b = 2.13s.15s
c = 6s.12s.13.14.16s.17.18.19 (20)
Start from rounds as the second row of a quick six

21. 5007 James W Belshaw

2314567890E	1	6	19
41236578E90		a	
2134		-	2
3142		-	2
4132		-	s
3124		-	2
2143		-	2
2154638709E		b	
215364		s	-
5132		-	2
3124658790E		c	
2143		-	2
415362		-	
41236587E90	-		s
2143		A	
4123658709E		d	
2143		A	

A

a = 1.5.7.8.10.11.13.15.16 (20)
b = 2.13s.15s.19
c = 6.9.10.18
d = 2.6.15s.19s

22. 5007 Mark C Bennett

2314567890E	1	6	19	
21345678E90		a		
3124		-	s	
316254			-	
314256			s	
4132		-	s	A
416352			-	
412356			s	
2143		-	s	
412356789E0	s	-	s	
2134		A		
3124567809E	-	-	s	
2143		A		
2143657890E		b		
41236578E90	-	-	s	
2134		A		
2134658709E		c		
3124		-	s	
2143		A		

a = 1.4s.17
b = 2.4s.5.7.9s.11 (20)
c = 2.13s.15s

23. 6204 Thomas Blakemore

2314567890E	1	5	6	7	18	19	
36542178E90	-	-		-			
563124			-			-	
456321				2		-	
135426			2		-		A
543216		-			-		
426315				-	-		
621345		-					
254361		-		-			B
561234				A			
231456				3B			
2314567890E	2						

24. 5007 Charles M S Botting

2314567890E	1	6	19	
41326578E90		a		
3124		-	2	
3142		s	2	
4123		-	2	
2134		-	2	
2134658709E		b		
314265879E0	2	-	2	
4123658709E	-	-	2	
213465879E0	2	-	2	A
3142658709E	-	-	2	
412365879E0	2	-	2	
413265879E	-	s	2	
21436587 9E0		A		
2143658709E	-			

a = 1.5.7.8.10.11.13.15s.16 (20)
b = 2.13s.15s

25. 5091 Charles M S Botting

2314567890E	1	6	19	
21436587		a		
21536478E90		b		
213465			2	
3142		-	2	A
4123		-	2	
4132		s	2	
3124		-	2	
2143		-	2	
2143659E780		c		
2153649E870	s		s	
5123		-	s	
5134628709E		d		
514263			2	
5124		s	2	
51346278E90		e		
514263			2	
5124		s	2	
2134658709E		f		
2143		A		

a = 1.3.6.12.23.26.28.31.33 (34)
b = 1.2s.13s.15s.19s
c = 1.3.8s.12s.15s.21
d = 2s.3.6s.8.9.12.13.18.21
e = 2.13s.15s.19s
f = 2.6.13s.15s

26. 5021 Alan S Burbidge

2314567890E	7	16	18
3214658709E		a	
32146587E90	2.15s		
2431	s	-	
4123	s	-	
412365879E0	10s		
1342	s	-	
3214	s	-	
32147586	3s.12		
2431	s	-	
4123	s	-	A
4123657890E		b	
1342	s	-	
3214	s	-	
32147568E90	1.4.17s		
1234	6.19s		
1234758609E	2.13s.15s		
42136587		c	
2341		s	-
3124		s	-
1432		s	-
1342		A	

a = 1s.2.3.7.8.9.10.12.13.15s.18s.21s
b = 1s.2.10s.13.15s
c = 3s.9s.12.16s.18

27. 5028 Alan S Burbidge

2314567890E		
32145678E90	a	
231456E9780	x	
3214	16s	
231465879E0	c	
3214658709E	a	
3214560987E	d	
2431657890E	e	
42316578E90	a	P
423165E9780	b	P
243156879E0	c	P
4231568709E	a	P
4231650987E	d	P
2143567890E	e	P
231456	4P	

a = 1s.2.15.16
b = 3.8s.12s.21
c = 3.8.10.12.15.16.18.19 (24)
d = 3.8s.10s.12s.21
e = 3.8.10.12.15.16.18.19.20 (24)
x = 3.8s.12s.16s.21

28. 5376 Alan S Burbidge

2314567890E	5	19
31542678E90		a
512436	-	
312456	s	
312456E9780		b
143265879E0		c
4153628709E		d
413265		2
4132650987E		b
1243567890E		c

4-part

a = 1s.2.5.15.16

b = 3.8s.12s.21

c = 3.8.10.12.15.16.18.19.20 (24)

d = 1s.2.15.16.19

Omit 3 bobs at 19 for 5112

29. 5011 John A Burford

1234567890E	1	6	19
4321		a	
23615478E90	-	-	3
431652		2	2
132654		-	3
134652		s	3
432651		-	3
2364		-	2
6342		-	2
3142658709E		b	
315462			-
512463		-	3
213465		-	3
312564		-	-
314562		s	3
4153		-	2
214365		2	3

a = 1.3.5.8.10 (11)
b = 4s.5.6.7.9.13.16.29 (32)
Start from rounds as the last row of a slow six

6452. 5004 Richard H Burton

```
2143658709E  6  9 18 19
-------------------------
21436578E90  2.13s.15s
-------------------------
4321           -     -  -
4312              s  -
1243           -     -  -
1234              s  -     A
3412           -     -  -
3421              s  -
2134           -     -  -
-------------------------
315246E9780  3.6.8.10.12s.18s.21
2153648709E  1.2.3.7.8.9.10.12s.16s.21
1243657890E  6.7.10s.13s.15s.22s
-------------------------
4312           -     -  -
4321              s  -     B
2143           -     -  -
-------------------------
124365879E0  1s.7s.12.14.16s.17.18.19 (20)
2143                 B
21436587E90  10s
1234567809E  2.3s.7.8.9.10.12.13.15s.18.21s
12435687     9s.13s.15s.18.22s
2143                 B
12435678E90  2.7s.13s.15s
2143                 B
123456E9780  3.7.8.9s.12s.18.21
2143758609E  1.2.3.7s.9.10.12s.18.21
21346587     3s.9s.12.18
2143                 A
-------------------------
Start from rounds as the first row of a slow six
```

6451. 5004 Richard H Burton

```
2143658709E  6  9 18 19
-----------------------
21435678E90  2.3s.8s.10s.12.13.15s.21s
-----------------------
4321           -     -  -  |
4312              s  -     |
1243           -     -  -  |
1234              s  -     |A
3412           -     -  -  |
3421              s  -     |
2134           -     -  -  |
-----------------------
123456E9780  3.7.8.12s.21
21436587E90  1s.3.7.8.9.10.12s.18.21
2143568709E  2.3s.8s.10s.12s.15s.21s
2134               A
12345678     7s.13s.15s.22s
1234568790E  2.12.14.16.17.18.19 (20)
21346578E90  1.3s.7.8.10s.12.13.15s.21.22
2143               A
124356E9780  3.7.8.10s.12s.21
2143758609E  1.2.3.7s.10s.12s.21
21346587     9s.13.18.22s
2143               A
-----------------------
```

Start from rounds as the first row of a slow six

6453. 5007 Richard H Burton

```
2314567890E  6 19
```

```
3124567809E     a
3124568790E     b
21346578E90     c
```

```
3142            -   2 |
4132            -   s | A
3124            -   2 |
2143            -   2 |
```

```
214365E9780     d
21435687E90     e
2134568709E     f
2143            A
21345678E90     g
2143            A
214356E9780     d
21436587E90     e
2134658709E     f
2143            A
```

```
a = 1s.6s.7.19s
b = 1.2.13s.15s
c = 1.5.8s.10s.13.14.16.18s (20)
d = 3.8s.12s.21
e = 1s.3.8s.10s.12s.21
f = 2.9s.15s.18
g = 2.9s.13s.15s.18
```

6456. 5016 Richard H Burton

```
2143658709E  1  6  9 18 19
──────────────────────────
1243657890E  7s.10s.13s.15s.22s
──────────────────────────
4312            -     -  - │
4321               s  -    │A
2143            -     -  - │
──────────────────────────
21436587E90  1s.2.13s.15s
21436578     6s.13s.15s.19s.22s
──────────────────────────
4321            -     -  - │
4312               s  -    │
1243            -     -  - │
1234               s  -    │B
3412            -     -  - │
3421               s  -    │
2134            -     -  - │
──────────────────────────
315246E9780  3.6.8.10.12s.18s.21
2153648709E  1.2.3.7.8.9.10.12s.16s.21
124356       3s.6.7.8s.10s.12s.21s
2143               A
12435678E90  2.7s.13s.15s
2143               A
123456E9780  3.7.8.9s.12s.18.21
2143758609E  1.2.3.7s.9.10.12s.18.21
21346587     3s.9s.12.18
2143               B
1253748690E  1s.3s.6.7.12
12436587E90  1.3s.12.19s
431265879E0  s  -     -  -
4321               s  -
2143            -     -  -
2143658709E  -
──────────────────────────
```

Start from rounds as the first row of a slow six

6455. 5016 Richard H Burton

```
2143658709E  6  9 18 19
-------------------------------------
21346578E90  2.9s.13s.15s.18
-------------------------------------
3421           -     -   -  |          |
3412              s  -      |          |
1234           -     -   -  |          |
1243              s  -      |A         |
4312           -     -   -  |          |
4321              s  -      |          |B
2143           -     -   -  |          |
-------------------------------------   |
214365E9780  3.8s.12s.21                |
21435687E90  1s.3.8s.10s.12s.21         |
2134568709E  2.9s.15s.18                |
2143            A                       |
-------------------------------------   |
31245678     9s.13s.15.16.18.22s
3124568790E  10s.13s.15s.22s
21345678E90  1.6.13s.15s.19s.22s
2143658709E       B
-------------------------------------
Start from rounds as the first row of a slow six
```

6454. 5016 Richard H Burton

2143658709E	6 9 18 19		
214356	3s.8s.10s.12s.21s		
4321	- - -		
4312	s -	B	
1243	- - -		
12345678E90	2.9s.13s.15s.18		
2134	B		A
123456E9780	3.7.8.12s.21		
21436587E90	1s.3.7.8.9.10.12s.18.21		
21436578	13s.15s.22s		
1243	B		
1234658709E	2.9s.13s.15s.18		
2134	B		
12345678	3s.7.8.10s.12.13.15s.21.22		
1234568790E	10s.13s.15s.22s		
2134568709E	7s.10s		
214365	A		

Start from rounds as the first row of a slow six

6458. 5050 Richard H Burton

```
1342658709E  6  9 18 19
_____________________
12435678E90  2.4.5s.7.8.9.10.13s.16s.20s (20)
_____________________
4312         -     -  - |
4321            s  -    |
2143         -     -  - |
2134            s  -    |A
3421         -     -  - |
3412            s  -    |
1234         -     -  - |
_____________________
123456E9780  3.8s.12s.21
21436587E90  1s.3.7.8.9.10.12s.18.21
2143568709E  2.3s.8s.10s.12s.15s.21s
2134            A
12345678     7s.13s.15s.22s
1234568790E  2.12.14.16.17.18.19 (20)
21346578E90  1.3s.7.8.10s.12.13.15s.21.22
2143            A
234156E9780  1s.6.7s.10.11.13.15s.17s.19.21.22.24.26.29.31 (32)
2143758609E  1.2.3.9.10.12s.21
21346587     9s.13.18.22s
2143            A
_____________________
Start from rounds as the third row of a slow six
```

6457. 5050 Richard H Burton

```
1342658709E  6  9 18 19
_____________________________
21436578E90  3s.4.6s.10s.11.14.15.16.17.18.20s.21.22.23.25.27s.28.30s.32.33.34.36 (36)
_____________________________
4321         -     -  - |
4312            s  -    |
1243         -     -  - |
1234            s  -    |A
3412         -     -  - |
3421            s  -    |
2134         -     -  - |
_____________________________
315246E9780  3.6.8.10.12s.18s.21
2153648709E  1.2.3.7.8.9.10.12s.16s.21
1243657890E  3.4.5.6.7.13.14.17.18 (20)
_____________________________
4312         -     -  - |
4321            s  -    |B
2143         -     -  - |
_____________________________
124365879E0  1s.7s.12.14.16s.17.18.19 (20)
2143               B
21436587E90  2.12.14s.16.17.18.19 (20)
1234567809E  2.3s.7.8.9.10.12.13.15s.18.21s
12435687     9s.13s.15s.18.22s
2143               B
12435678E90  2.7s.13s.15s
2143               B
123456E9780  3.7.8.9s.12s.18.21
2143758609E  2.4.6.7.10.11.12.13.14.16.19 (20)
21346587     3s.9s.12.18
2143               A
_____________________________
Start from rounds as the third row of a slow six
```

6459. 5400 Richard H Burton

```
2143658709E  1  6  9 18 19
─────────────────────────────
214365E7908  2s.10s
6543217890E  2s.4.5.8s.10s.12s.13.14.18 (20)
124365       5s.8.16s.21s
─────────────────────────────
4312            -     -  - │
4321               s  -    │A
2143            -     -  - │
─────────────────────────────
21436587E90  1s.2.13s.15s
21436578     6s.13s.15s.19s.22s
─────────────────────────────
4321            -     -  - │
4312               s  -    │
1243            -     -  - │
1234               s  -    │B
3412            -     -  - │
3421               s  -    │
2134            -     -  - │
─────────────────────────────
315246E9780  3.6.8.10.12s.18s.21
2153648709E  1.2.3.7.8.9.10.12s.16s.21
124356       3s.6.7.8s.10s.12s.21s
2143              A
12435678E90  2.7s.13s.15s
2143              A
123456E9780  3.7.8.9s.12s.18.21
2143758609E  1.2.3.7s.9.10.12s.18.21
21346587     3s.9s.12.18
2143              B
1253748690E  1s.2.3.6.7.12.15s
123475869E0  1.6s.9.10.18
12436587     3s.9s.12.18
2143              A
2143658709E  -
─────────────────────────────
```

Start from rounds as the first row of a slow six

30. 5031 Shirley Burton

```
2314567890E  1   6 19
-------------------------
3154629E870      a
512463           -   3
-------------------------
2145             -   2 |
213564               s | A
314562           -   3 |
412563           -   3 |
-------------------------
412563879E0      b
213564           -   3
5132             A
3142658709E  -   -   3
2143             A
-------------------------
a = 1.5.8.10.12.15.16.18.19.23 (24)
b = 3.8s.12s.21
```

Guess at turning courses, as missing from RW

10088. 11111 Shirley Burton

a = 1.2.4.5.6.7.9.10.12.s14.15.16.17.18.20.22.23.24.25 (25)
b = s2.s13.s15.19
c = 2.s13.s15.19
Start from rounds as the second row of a slow six

6460. 5001 Anthony R Carter

2314567890E	4	5	8	10	11	13	17	18	20	21
4126385970E						a				
4127385960E					-				s	
2136485970E		-			-				s	
2137485960E					-				s	
3146285970E		-			-				s	
3147285960E					-				s	
2146385970E		s			-				s	
2147385960E					-				s	
4136285970E		-			-				s	
4137285960E					-				s	
3126485970E		-			-				s	
3127485960E					-				s	
12437568E90						b				
12436578	-						s			
13247568	-						s	-		
13246578	-						s			
14327568	-						s	-		
14326578	-						s			
12347568	-						-	-		
12346578	-						s			
14237568	-						s	-		
14236578	-						s			
13427568	-						s	-		
13426578	-						s			
135246E9780						c				
3152	16s									
213548607E9						d				
314527698E0		-	s	s		s				s
314528607E9			s	s		s				s
412537698E0		-	s	s		s				s
412538607E9			s	s		s				s
312547698E0		s	s	s		s				s
312548607E9			s	s		s				s
214537698E0		-	s	s		s				s
214538607E9			s	s		s				s
413527698E0		-	s	s		s				s
413528607E9			s	s		s				s
213547698E0		s	s	s		s				s

a = 1s.4.8.9.10.11.12.16s.17.20
b = 2.5.7.8.10s.11.14.15.16.17.20 (20)
c = 3.6s.7.8.10s.12s.16s.21
d = 4s.6s.8.9.13s.16.17.18

6461. 5057 Anthony R Carter

2314567890E	9	14	16	18	
24135678E90			a		
2341				-	
2431	s			2	A
153426	s	s	s		
13246587			b		
1432				-	
2341	s		s	2	B
164325	s	s	s		
14235678			b		
253416			A		
23146587			b		
264315			B		
2413568709E			c		
153426			A		
132465			d		
164325			B		
142356			d		
253416			A		
231465			d		
2431				-	
1342	s		s	2	

a = 1s.2.9.10.12s.14s.16.17.18.19.20 (20)
b = 5.8s.10s.13s.17s.18 (20)
c = 2.5.8s.10s.17s.18.20s (20)
d = 5.8s.10s.13s.15s.17s.18 (20)

31. 5007 John Carter

2314567890E	5	6	19	
21635478E90		a		
213456			2	A
3142		-	2	
416253		-	3	
413256		s	3	
3124		-	2	
2143		-	2	
216453			-	
612354		-	-	
513264	-	-	2	
3125		-	2	
2153		-	2	
2153648709E		b		
214365		A		

a = 1.5.6s.7.8.10.11.13s.15s.16.17 (20)
b = 2.5.6.9s.13s.14.15.18.19

32. 5007 John Carter
(Broadsheet)

2314567890E	5	6	19	
21645378E90		a		
214356			2	
4132		-	2	
3124		-	2	
3142		s	2	A
4123		-	2	
2134		-	2	
216354			-	
612453		-	-	
214365	-		2	
2134		A		
2134658709E		b		
2143		A		

a = 1.6.7.8.10.11.12.13.15.16.17 (20)
b = 2.13s.15s

33. 5007 John Carter

2314567890E	6	19	
21536478E90		a	
213465		2	
3142	-	2	
415263	-	3	
5124	-	2	
2154	-	s	A
213564		-	
314562	-	3	
412563	-	3	
214365	-	-	
2153648709E		b	
214365		A	

a = 1.5.7.8.10.11.13s.15.16.17s (20)
b = 2.13s.15s.19s

34. 5007 John Carter

2314567890E	6	19
21645378E90		a
213654		-
314652	-	3
412653	-	3
214356	-	-
214653	s	-
413652	-	3
312654	-	3
2163	-	2
612453	-	-
2153648709E		b
213465		2
3142	-	2
415263	-	3
413265	s	3
315264	-	3
5123	-	2
214365	-	3

a = 1.6.7.8.10.11.12.13.15.16.17 (20)
b = 2.5.6.7.13s.15.16.19

35. 5009 John Carter

2314567890E	5	6	7	18	19		
23145678E90			a				
1423		-		-	-		
4123			s				
2341		-		-	-		
3241			s			A	
4132		-		-	-		
1432			s				B
3214		-		-	-		
326154					-		
623451		-			-		
231465	-	-	-				
3214			A				
325164					-		
524163		-					
3142568709E			b				
134265			B				

a = 1s.2.4s.5.6.7.8.9.10.11 (20)
b = 2.5.7.13s.15.16.18.19

36. 5012 John Carter

1234567890E	1	5	6	7	18	19	
24153678E90	-	2	-	-	-	-	
452316		2	-	-	-	-	
534126		2	-	-	-	-	
213456		s			-		
145326		-	-	-	-	-	A
431256		2	-	-	-	-	
324516		2	-	-	-	-	
253146		2	-	-	-	-	
512436		2	-	-	-	-	
341256		s			-		
4321				2A			
3124567890E				a			

a = 2.10s.15.16.18s

Start from rounds as the last row of a quick six

37. 5017 John Carter

1234567890E	5	6	7	18	19		
12435678E90			a				
4312		-		-	-		
3412			s				
1234		-		-	-		
2134			s			A	
3421		-		-	-		
4321			s				B
2143		-		-	-		
216453					-		
612354		-			-		
124365	-	-	-				
2143			A				
215463					-		
512364		-			-		
1243568709E			b				
214365			B				

a = 1s.2.9s.15s.18
b = 2.5.6.7.13s.15s
Start from rounds as the last row of a quick six

38. 5019 John Carter

2314567890E	1	5	6	7	19	
31425678E90	-		s	-	2	
4123			-		2	
2134			-		2	
2143			s		2	A
4132			-		2	
3124			-		2	
316254					-	
613452			-		-	
612453					s	
214365		-			2	
2134			A			
213465870 9E			a			
2143			A			

a = 2.13s.15s

39. 5019 John Carter

2314567890E	5	6	19	
21654378E90		a		
612345		-	-	
215463	-		-	
213564			-	A
314562		-	3	
412563		-	3	
413562		s	3	
312564		-	3	
214563		-	3	
214365		s	-	
2154638709E		b		
214365		A		

a = 1.3.4.8.11s.12.17.20.21
b = 2.13s.15s.19

40. 5019 John Carter

2314567890E	6	19	
21456378E90		a	
413562	-	3	A
312564	-	3	
2153	-	2	
5123	-	s	
2135	-	2	
314562	-	3	
412563	-	3	
214365	-	-	
2145638709E		b	
214365		A	

a = 1.3.4.8s.9.11s.12.17.20.21
b = 2.6s.13s.15s.19

41. 5019 John Carter

2314567890E	5	6	19	
41265378E90		a		
413256			-	
3124		-	2	
2143		-	2	A
2134		s	2	
3142		-	2	
4123		-	2	
416253			-	
614352		-	-	
412563	-		-	
412365		A		
2145638709E		b		
214365		A		

a = 1.3.4.8s.9.11.12.16s.17.20.21
b = 2.6.13s.15s.19

42. 5019 John Carter

2314567890E	5	6	19
31245678E90		a	
2143	3	-	2
4132	3	-	2
314652	3	-	-
314256		s	-
4123	3	-	2
2134	3	-	2
316452	3	-	
4123658709E		b	
415263			-
5124		-	2
213465		-	3
3142		-	2
4132		-	s
3124		-	2
2143		-	2

a = 1.2.3.6.11.12.15.16.19.20
b = 2.5.9s.13.14.15.16.18.19

43. 5019 John Carter

(arr M J Palmer)

2314567890E	6	19	
21465378E90		a	
213456		-	
3142	-	2	
4123	-	2	A
4132	s	2	
3124	-	2	
2143	-	2	
216354		s	
214563		b	
214365		A	
2153648709E		c	
214563		-	
214365		A	

a = 1.3.4.8s.9.11.12.17.20.21
b = 5.14s.19
c = 2.13s.15s.19s

44. 5021 John Carter

2314567890E	5	6	19	
32145678E90	1s.	2.	15.	16
1243		-	2	
4231		-	2	
4213		s	2	A
1234		-	2	
3241		-	2	
326451			-	
623154		-	-	
321465	-		2	
3241		A		
4235618709E	2.	6.	13s.	15s. 19
421365			-	
1234		-	2	
321564		-	-	
324561		s	3	
421563		-	3	
124365		-	-	
1342	18s			

45. 5237 John Carter

2314567890E	6	7	18	19	
23145678E90			a		
1423	-		-	-	
4123		s			A
2341	-		-	-	
3241		s			
4132	-		-	-	
1432		s			
3214	-		-	-	
241365			b		
1324	-		-	-	
4213			A		
23146587			c		
1423	-		-	-	
3214			A		
4213568709E			d		
1342	-		-	-	
2413			A		
421365			e		
3142			A		
1342		s			

a = 1s.2.4s.5.6.7.8.9.10.11 (20)
b = 7.8.9.10.13s.14.15.16.17.18 (20)
c = 7.8.9.10.12s.13.14.16.17.18 (20)
d = 2s.3.7.8.9.10.12s.15.16.21s
e = 7.8.10s.13s.14.15.16.17.18 (20)

46. 5271 John Carter
(arr Robin E H Woolley)

2314567890E	6	16	18	19	
21345678E90			a		
3421		-	-	-	
4321		s			
2143		-	-	-	
1243		s			A
4312		-	-	-	
3412		s			
1234		-	-	-	
123465			b		
2134			A		
21346587			c		
1234			A		
2143568709E			d		
1243			A		
124365			b		
2143			A		

a = 1s.2.5.6.7.8s.10s.16.18s.20s (20)
b = 3s.8s.10.11.12s.20.21
c = 2s.13s.15s
d = 2.3s.7.8.9.10.12s.15s.18.21s
For 5007 call 9s.18 for last three courses of any A

47. 5007 William A Cave

2314567890E	1	5	6	19
31246587E90			a	
314562				2
4153			-	2
5134			-	2
314256		-	3	2
4123			-	2
214653			-	-
214356			s	-
4132			-	2
316254			-	3
613452			-	-
513264		-	-	-
412365			2	2
2134			-	2
213465879E0	10s			
3142658709E	-		-	2
4123			-	2
4132			s	2
3124			-	2
2143			-	2

a = 1,5,7,8,10s,13,14,16,18s (20)

48. 5000 John E Chilcott

1234567890E	1	6	9	18	19	
21345678E90			a			
3124		-			s	
3142			s	-		
4132		-			s	
4123			s	-		
2143		-			s	
216453					-	B
213465			b			
3124		-			s	
3142			s	-		
4132		-			s	
4123			s	-		
2143		-			s	
2145638709E			c			
213465					-	
3142		-			2	
4123		-			2	
415362					s	
413265					2	
3124		-			2	
213564		-			-	
2143658790E	10s.19					
41236587E90	-	-			s	
312456			B			
3124567890E			d			

a = 2s.4.6.8s.10.12.14.16.18.20.22s
b = 5.9s.14s.18.19
c = 2.6s.13s.15s.19
d = 12.14.16s.17.18.19 (20)
Start from rounds as the last row of a quick six

49. 5007 John E Chilcott

2314567890E	1	6	19
21346578E90		a	
3142		-	2
4123		-	2
415362			s
413265			2
3124		-	2
2143		-	2
2134658790E		b	
31426587E90	-	-	2
415263		-	3
315264		2	s
312465		3	2
2143		-	2
213465879E0		c	
3142658709E	-	-	2
4123		-	2
415362			s
413265			2
3124		-	2
2143		-	2

a = 1.5.7.8.10.11.13s.15s.16 (20)
b = 9.10.13s.15s.18.22
c = 9.10.18

50. 5021 John E Chilcott

1234567890E	1	5	6	19
413265			a	
31246578E90	-		-	2
215463			-	3
512364			-	-
213456		-		2
3142			-	2
4123			-	2
4132			s	2
3124			-	2
216453			-	3
612354			-	-
213465		-		2
3142			-	2
4123			-	2
3124658790E			b	
3145628709	s			2
413265			-	-
4123			s	2
2134			-	2
3142			-	2
3241	18s			

a = 3.4.7.8.9.10.12.13.16s.17.18.21.22
b = 9.10.13s.15.16.18s.22
Start from rounds as the last row of a quick six

51. 5050 John E Chilcott

2314567890E	1	5	6	14	19	
61325478E90			a			
314256			-			
4123			-		2	
216354			-		3	
213465		-		s	2	A
3142			-		2	
4123			-		2	
4132658790E			b			
3124658709	s		-		2	
213564			-		-	
214563					s	
213465					-	
3142			-		2	
4123			-		2	
4153627890E			c			
4132657 8E90	-				2	
312456			A			
3124567890E			z			

a = 1.2.4.6.7.9.14.21s.22.26.27 (32)
b = 9.10.13s.15s.18.22
c = 6s.12s.13.14.16s.17.18.19 (20)
z = 12.14.15.16.17.18.19 (20)

52. 5115 John E Chilcott

2314567890E	1	5	6	9	14	18	19	
415362				a				
41325678E90	-	-			s		2	
416253			s				3	
412365		-			s		2	
4132				s		-		A
4135628709E				b				
412365							-	
4132			s				2	
3152647890E				c				
3124658709E				A				
2154637890E				c				
2143658709E				A				

a = 5.7.8.10.11.13.15s.16.17 (20)
b = 2.6s.13s.15s.19
c = 2.6.12.14.16.17.18.19 (20)

10090. 18075 John E Chilcott

2314567890E	1	6	19	
41526378E90		a		
513264		-	3	A
314265		-	3	
4123		-	2	
2134		-	2	
4152638790E		b		B
213465		A		
215463			s	
41625378		c		
61325478E90	-	-	3	
314256		-	3	
4123		-	2	
2134		-	2	
216453			s	
41526387		d		
213465		A		
4152637890E		b		
213465		A		
4152638709E		e		
213465		A		
215364			-	
315264789E0		f		
51426378E9	s	-	3	
413265		-	3	
3124		-	2	
2143		-	2	
2143658709E		B		

a = 1.5.7.8.10.11.13.15.16.17 (20)
b = s5.9.10.13.14.15.16.18.19.22
c = 1.s5.6.9.10.13.14.15.16.18.19.22
d = s1.s5.6.9.10.13.14.15.16.18.19.s22
e = s2.s5.9.10.13.14.15.16.18.19
f = 5.6.9.10.13.14.15.16.18.19.22

53. 5001 Michael V Chilcott

1234567890E	6	7	16	18	19	
23465178E90			a			
312456		-			-	
143652		-		-	-	
421356		-			-	
2413			s			
1324	-			-	-	
14356287			b			
241365		-	s		-	
4213			s			
234561		-		-	-	A
132465		-	s		-	
3124			s			
1435628709E			c			
312465			A			
135264			s		-	
3152			s			
32156478E90			d			
134265			A			
32156487			e			
134265			A			
3215648709E			c			
134265			A			

a = 1s.4.7.10s.12.13.14.16.20 (21)
b = 4.5.7.8.9.10.13s.16.18 (20)
c = 2.7.15s.18.19
d = 2.13s.15s.18
e = 2s.7.13s.15s.18.19
Start from rounds as the last row of a slow six

54. 5005 Michael V Chilcott

1234567890E	6	7	18	19	
12435678E90			a		
2314		s	-		
3421		s	-		
4132		s	-		
3241	-		-	-	A
2134		s	-		
1423		s	-		
4312		s	-		
34126587			b		
4312		s			
325164		-	-		
213465		-	-	-	
1234		s			
245361		-	-		B
432165		-	-	-	
3421		s			
415263		-	-		
124365		-	-	-	
2143		s			
12436578			c		
4312			A		
3412658709E			d		
2143			B		

a = 1s.2.9s.15s.18
b = 7.8.10s.13.14.16.17.18 (20)
c = 2s.7s.13s.15s
d = 2.7s.13s.15s
Start from rounds as the last row of a quick six

55. 5005 Michael V Chilcott

```
1234567890E
_____________
12435678E90     a
_____________
4132             3z       |
3241           6.18.19    |A
4312             3z       |
_____________
34126587        b
_____________
4312           7s         |
325164           x        |
213465           y        |
1234           7s         |
245361           x        |B
432165           y        |
3421           7s         |
415263           x        |
124365           y        |
2143           7s         |
_____________
12436578        c
4312            A
3412658709E     d
2143            B
_____________
a = 1s.2.9s.15s.18
b = 7.8.10s.13.14.16.17.18 (20)
c = 2s.7s.13s.15s
d = 2.7s.13s.15s
x = 3.4.6.12s.16.18s
y = 3.4.6.12s.16.18s.19
z = 2s.4.6.14.16.18.19
Start from rounds as the last row of a quick six
```

56. 5007 Michael V Chilcott

2314567890E	1	4	6	9	16	18	19	
41235678E90	-		-	s	s		s	
216354			-					
213456			s	s		-		
3142			-				2	
412365				x				A
215364			-					
213465			s	s		-		
3142			-				2	
4132			-				s	
214356				A				
1324657089E				a				
325461		s	-		-			
251463		s	-		-			
513462		s	-		-			
3154			-				s	
152463		s	-		-			
523461		s	-		-			
231465		s	-		-			
4123658790E				b				
2153648709E	s		-					
213465			s	s		-		
3142			-				2	
4132			-				s	
315264			-					
312465			s	s		-		
2143			-				2	

a = 4s.7.12.15.16.22s.23.24 (24)
b = 2.6.9.10.16s.19s.22
x = 5.8s.10.11.13.14.15.16 (20)

57. 5007 Michael V Chilcott

2314567890E	6	7	18	19	
21345678E90	1.4s.		17		
3124	-			s	
124365			a		
235461		-	-		|
342165		-	-	-	|
4321		s			|
315264		-	-		|
123465		-	-	-	|
2134		s			| A
145362		-	-		|
431265		-	-	-	|
3412		s			|
425163		-	-		|
214365		-	-	-	|
12436587			b		
2143			A		
1243658709E	2.15.		16		
2143			A		

a = 5.7.8.10.11.13.14.15.16 (20)
b = 2s.13s.15.16

58. 5007 Michael V Chilcott

2314567890E	6	9	18	19	
23415678E90			a		
4123	-		-	-	
4132		s	-		
3241	-		-	-	
3214		s	-		
1432	-		-	-	
1423		s	-		
2314	-		-	-	
412365			b		
215364	-				
213465	s	s	-		
3142	-			2	
4132	-			s	A
315264	-				
312465	s	s	-		
2143	-			2	
41236587			c		
2143			A		
4123658709E			d		
2143			A		

a = 1s.2.9s.15s.18
b = 5.7.8.10.11.13.15.16 (20)
c = 2s.6.13s.15s.19s
d = 2.6.15s.19s

59. 5007 Michael V Chilcott

2314567890E	6	9	18	19	
31246578E90			a		
3142	s			2	A
4132	-			s	
315264	-				
316254	5.14s				
312456	s	s	-		
3142	s			2	
4132	-			s	
51324679E80			b		
3152	-			s	
3125		s	-		
2135	-			s	
2153		s	-		
5123	-			s	
21345678E90			c		
412365			A		
2145638709E			d		
213465				-	
3142	-			2	
4123	-			2	
4132	s			2	
3124	-			2	
2143	-			2	

a = 1.5.7.8.10.11.13s.14.15.16 (20)
b = 5s.8s.21
c = 5.8.9.18.21
d = 2.6.13s.15s.19

60. 5007 Michael V Chilcott

2314567890E	1	4	6	9	16	18	19	
41236578E90				a				
215364			-					
213465			s	s		-		A
3142			-				2	
4132			-				s	
315264			-					
312465			s	s		-		
2143			-				2	
412356				b				
216354			-					
214356				A				
1324657089E				c				
325461		s	-		-			B
251463		s	-		-			
513462		s	-		-			
3154			-				s	
231465				B				
4123658790E				d				
2153648709E	s		-					
214365				A				

a = 1.5.7.8.10.11.13.15.16 (20)
b = 5.8s.10.11.13s.14.15.16 (20)
c = 4s.7.12.15.16.22s.23.24 (24)
d = 2.6.9.10.16s.19s.22

61. 5007 Michael V Chilcott

```
2314567890E
___________
21345678E90   1.4s.17
3124          6.19s
124365          a
235461          v
342165          w
4321          7s
315264          v
123465          w
2134          7s
145362          v
431265          w
3412          7s
425163          v
214365          w
12436587        b
_____________
235461          x |
342165          y |
4321          7s  |
315264          x |
123465          y |
2134          7s  |A
145362          x |
431265          y |
3412          7s  |
425163          x |
214365          y |
_____________
1243658709E   2.15.16
2143            A
_____________
a = 5.7.8.10.11.13.14.15.16 (20)
b = 2s.13s.15.16
v = 2s.4.6.14.16.18s
w = 2s.4.6.14.16.18s.19
x = 3.4.6.12s.16.18s
y = 3.4.6.12s.16.18s.19
```

66. 5009 Michael V Chilcott

2314567890E	6	7	18	19	
24136578E90			a		
1324	-		-	-	
3142	-	-		2	
4231	-		-	-	
215364		-	-		
134256			b		
4213	-		-	-	
2413		s			A
136254	-		-	2	
3152648709E			c		
5231	-		-	-	
243165		-			
4231		s			
253164		-			
3125	-		-	-	
132465	-	-		-	
3124		s			
24316578E90			d		
1325648709E			A		
314265		s		-	
1342		s			

a = 1s.2.8s.9.10.14s.16.17.18.20s (20)
b = 5.14s.16s.18.19
c = 2.5.13.14.15.16
d = 2.6.13s.15s.18.19

67. 5009 Michael V Chilcott

2314567890E	1	6	7	18	19	
13245678E90			a			
143652		s		-		
421356			-		-	A
2413			s			
234651		s		-		
312456			-		-	
13246587			b			
143562		s		-		
312465			A			
1324658790E			c			
1435628709E	s	s		-		
312465			A			
315264					-	
3251		s		-	-	
31426578E90			d			
321564		s		-		
134265			A			
31426587			e			
321564		s		-		
134265			A			
3142658790E			c			
3215648709E	s	s		-		
134265			A			

a = 1s.2.6.9s.15s.18.19
b = 7.8.10s.13.14.16.17.18 (20)
c = 10s.13s.16s.22
d = 2.13s.15s.18.19
e = 2.3.12.13.15.16

68. 5009 Michael V Chilcott

2314567890E	1	4	6	7	16	18	19	
3124658709E				a				
315264							-	
524163			-			s		
2541				x				
314562				y				A
243165				z				
4231				s				
3142			-			-	-	
3142657890E				b				
32156478E90	-		s			-		
243165				-			-	
4231				s				B
412563			s			-		
134265				-			-	
3254617089E				c				
251463		s	-		-			
513462		s	-		-			
132465		s	-		-			
2314			-				s	
315462		s	-		-			
152463		s	-		-			
523461		s	-		-			
23516478E90				d				
2153						s		
132465			-	-		-		
143562			s			-		
312465				B				
1324658790E				e				
1352648709E	s						-	
134265				A				

a = 1s.5.7.8.10s.13.14.16.18s (20)
b = 3.13.14.16.17.18.19 (20)
c = 4.5.12.15s.22s.23.24 (24)
d = 2s.4.6.12.14.16.19
e = 10s.13s.15.16.22
x = 3.4.12s.16.17
y = 3.4.7.12s.16s.17.18
z = 3.4.7.12s.16s.17.19

69. 5009 Michael V Chilcott
(arr R W Pipe)

1234567890E	6	7	16	17	18	19
13245678E90				a		
2314	-					s
234165				b		
342561				p		
143265		-	s			-
4132		s				
125364		-			-	
231465				q		
3214		s				
213564				p		
412365		-	s			-
1423		s				
435261				r		
324165		-			-	-
23416587				c		
342561				p		
143265		-	s			-
4132		s				
125364				r		
231465				q		
3214		s				
213564				p		
412365		-	s			-
1423		s				
435261		-			-	
324165				q		
2341658709E				d		
342561				w		
143265				x		
4132		s				
125364				y		
231465				z		
3214		s				
213564				w		
412365				x		
1423		s				
435261				y		
324165				z		

a = 1.4s.17
b = 5.8s.10.11.13s.15.16 (20)
c = 2.3.12.13.15.16
d = 2.15.16
p = 2.4.6.12s.14.16.19
q = 2.4.6.12s.14.16.18s.19
r = 2.4.6.12s.14.16.18s
w = 3.4.7.12s.17.19
x = 3.4.7.12s.16.17.19
y = 3.4.6.12s.16.18s
z = 3.4.6.12s.16.18s.19
Start from rounds as the last row of a quick six

70. 5009 Michael V Chilcott

2314567890E	1	6	7	18	19	
13245678E90			a			
143652		s		-		A
421356			-		-	A
2413			s			A
234651		s		-		A
312456			-		-	A
314265			b			
1342			A			
13246587			c			
3124			A			B
1324658790E			d			B
1435628709E	s	s		-		B
421365			-		-	B
2413			s			B
234561		s		-		B
312465			-		-	B
315264					-	
3251		s		-	-	
31426587E90			e			
1342658709E			B			

a = 1s.2.6.9s.15s.18.19
b = 5.7.8.10.11.13s.15s (20)
c = 2.3.9s.12.13.15s.18
d = 10s.13s.16s.22
e = 2.15s.18.19

62. 5009 Michael V Chilcott

2314567890E	1	7	16	18	19	
24136578E90			a			
4213			s			A
234561		-		-	-	
132465		-	s		-	
3124			s			
143562		-		-	-	
14356287			b			
241365		-	s		-	B
4213			s			
234561		-		-	-	
132465		-	s		-	
3124			s			
3152648790E			c			
1435628709E	s	-			-	
312465			B			
42316578E90			d			
321564			A			
32156487			b			
134265			B			
1352648790E			e			
3215648709E	s		s	-		
134265			B			

a = 1.8.9.10.11.13.14.15.16.17 (20)
b = 2s.13s.15s
c = 9.10.13s.18s.19.22
d = 2.6.9s.13s.15.16.19s
e = 9.10.13s.18.19.22

63. 5009 Michael V Chilcott

2314567890E	1	7	18	19		
32165478E90			a			
243156		-		-		
4231		s			A	B
214653		-	-	-		
132456		-		-		
3142			2A			
1342		s				
321564			b			
134265			B			
31426587			c			
1342	16s					
321564879E0			d			
2431658709E	-	-		-		
3142			3A			
1342		s				

a = 1s.2.6.7.15s.19
b = 7.8.9.10.11s.13.14.15.16 (20)
c = 2s.13s.15.16
d = 7.10s.18.19

64. 5009 Michael V Chilcott

2314567890E	5	6	7	9	14	16	18	19	
31246578E90					a				
2143		-						2	
2134				s			-		
513462			-			s			A
312456	-							s	
2143		-						2	
2134				s			-		
21345679E80					b				
3124		-						s	
3142				s			-		
315246	-				s				
5132		-						s	
31425678E90					c				
413265					A				
4213658709E					d				
2413			s						
1324		-					-	-	
3142		-	-					2	
31246587E90					e				
1342		-	-					2	
3142			s						
4231		-					-	-	
4231658709E					f				
2431			s						
3124		-					-	-	
1342		-	-					2	

a = 1.5.7.8.10.11.13s.14.15.16 (20)
b = 7.8.16s.21
c = 5.8s.21
d = 2.13s.15s.18
e = 2.9s.15s.18
f = 2.15s

65. 5009 Michael V Chilcott

2314567890E	6	7	16	18	19	
24315678E90			a			
4231			s			
3142	-			-	-	
1342			s			
4213	-			-	-	
2413			s			
1324	-			-	-	
3124			s			
341562			b			
243165		-	s		-	
412563		-		-	-	
134265		-			-	
321564		-		-	-	
423165		-	s		-	
214563		-		-	-	
132465		-			-	A
315264			s		-	
2431658709E			c			
4231		s				
215364		-		-		
132465		-		-	-	
3142	-	-			2	
14356278E90			d			
1342658709E			A			

a = 1s.2.15s.18
b = 8.9.10.11.13.14.15.16 (20)
c = 2.7.9s.13s.15.16.18.19
d = 2.6.13s.15.16.19

71. 5009 Michael V Chilcott

2314567890E	7	16	18	19	
14365278E90			a		
241356	-	s		-	A
4213		s			
234651	-		-	-	
132456	-	s		-	
3124		s			
14356287			b		
312465			A		
1435628709E			c		
312465			A		
135264		s		-	
3152		s			
32156478E90			d		
134265			A		
32156487			e		
134265			A		
3215648709E			c		
134265			A		

a = 1s.2.6.15s.18
b = 4.5.7.8.9.10.13.14.16.18 (20)
c = 2.7.15s.18.19
d = 2.13s.15s.18
e = 2s.7.13s.15s.18.19

72. 5025 Michael V Chilcott

```
 3124567890E  6   9 18 19
 ------------------------
 61435278E90        a
 214356       2          s
 2134            s  -
 3124         -          s
 3142            s  -
 4132         -          s
 416352                  -
 412365       5.14s.19s
 ------------------------
 2134         -          2 |
 3142         -          2 |
 4132         -          s | A
 3124         -          2 |
 2143         -          2 |
 ------------------------
 41236587           b
 2143               A
 4123658709E        c
 2143               A
 ------------------------
```

a = 1s.4.10.11.17s.19s.22 (23)
b = 2s.6.13s.15s.19s
c = 2.6.15s.19s

Start from rounds as the fourth row of a slow six

73. 5050 Michael V Chilcott

2314567890E	6	7	18	19	
14236578E90		a			
4123		s			A
134562		-	-	-	
321465		-		-	
2341		2A			
3241		s			
13246587		b			
2413	-		-	-	B
4213		s			
1342	-		-	-	
3142		s			
4231	-		-	-	
2431		s			
3124	-		-	-	
1423658709E		c			
2341		3A			
13245678E90		d			
3124		B			
3124567890E		z			

a = 1s.4.6.7.8.10s.12.15s.16.19.21.22.23.27 (28)
b = 2s.7s.9s.13s.15.16.18
c = 2.15.16.18s
d = 2.4s.7.12.13.15.16.17.18.22.23 (24)
z = 12.14.15.16.17.18.19 (20)

74. 5057 Michael V Chilcott

2314567890E	1	4	6	7	9	16	18	19	
42136578E90					a				
2413				s					
1324			-				-	-	
3124				s					
2431			-				-	-	A
4231				s					
3142			-				-	-	
1342				s					
312456					b				
1324				s					
2413			-				-	-	
4213				s					
43215679E80					c				
2341			-					s	
2314					s		-		
1324			-					s	
1342					s		-		
4312			-					s	
24315678E90					d				
4231				s					
3142			-				-	-	
1342				s					
3214657089E					e				
215463		s	-			-			
153462		s	-			-			
532461		s	-			-			
2354			-					s	
351462		s	-			-			
512463		s	-			-			
123465		s	-			-			
4213658790E					f				
2413658709E	s			s					
1342					A				

a = 1s.4.6.7.8.10s.12.15s.16.19.21.23.27 (28)
b = 5.7.8.10.11.13s.14.15 (20)
c = 7.8.16s.18.21
d = 7s.8.9.16s.18.21
e = 4s.7.12.15.16.22s.23.24 (24)
f = 2.9.10.16s.18.22

75. 5100 Michael V Chilcott

2314567890E	1	6	9	18	19	
412365			a			
21536478E90	-	-				
213465		s	s	-		
3142		-			2	
4132		-			s	A
315264		-				
312465		s	s	-		
2143		-			2	
41236587			b			
215364		-				
214365			A			
4123658709E			c			
215364		-				
214365			A			
2341567890E			d			
41235678E90	-	-		-	-	
4132			s	-		
3241		-		-	-	
3214			s	-		
1432		-		-	-	
1423			s	-		
2314		-		-	-	
2314567890E			z			

a = 5.7.8.10.11.13.15.16 (20)
b = 5s.6.8s.10s.13.14.16.18s (20)
c = 2.6.15s.19s
d = 1s.8s.9.10.13.14.16.17.18 (20)
z = 12.14.15.16.17.18.19 (20)

76. 5103 Michael V Chilcott

2314567890E	5	6	7	18	19	
24135678E90			a			
1324		-		-	-	
3124			s			
2431		-		-	-	
4231			s			
3142		-		-	-	
1342			s			
4213		-		-	-	
235641	-		-	s		
123456E9780			b			
14326578E90			c			
4123		-	-		2	
2143		-			s	
1234		-	-		2	
213564		-	-		-	A
314625	-				-	
531246E9780			b			
3215648709E			d			
241563			-			
423165			s		-	
3142		-		-	-	
1234			s	-		
3412		-		-	-	
34126578E90			e			
1235648709E			A			
132465		-	2		-	
2413		-		-	-	
4321			s	-		
2143		-		-	-	

a = 1s.2.15s.18s
b = 2.3.4.6.10s (12)
c = 3.8s.9.10.12s.21
d = 1.2.3.7.8.9.10.12s.21
e = 2.13s.15s

77. 5250 Michael V Chilcott

213547698E0	6	7	18	19	
43256178E90			a		
431265				-	
3412		s			
1234	-		-	-	
2134		s			
3421	-		-	-	
4321		s			
2143	-		-	-	
12436587			b		
4312	-		-	-	
3412		s			
1234	-		-	-	
2134		s			A
3421	-		-	-	
4321		s			
2143	-		-	-	
12435678			c		
2143			A		
12435679E80			d		
2143			A		
1243658709E			e		
2143			A		

a = 1s.4.6.8.17.21
b = 7.8.10s.12s.13.14.16.17.18 (20)
c = 7.8.10s.13.14.16.17.18 (20)
d = 7.8.21
e = 1s.2.7.8.10.11.13.14.15.16.17.20 (20)
Start from rounds as the first row of a quick six

78. 6000 Michael V Chilcott

1342658709E	1	6	7	9	16	18	19	
65234718E90				a				
24136578				b				
4213			s					
235164			-			-		A
312465			-			-	-	
1342		-	-				2	
423156				c				
2431					s			
2413				s		-		
4213					s			
531246E9780				d				
31425678E90				e				
1342					s			
1324				s		-		
3124					s			
243165				f				
3142				A				
24316587				g				
3142				A				
2431658709E				h				
3142				A				
2413658790E				j				
42136587E90	-		s					
235164			-			-		
312465			-			-	-	
1342		-	-				2	
2413658709E				h				
1342				A				

a = 4.9.11.12 (12)
b = 5s.6.8.17s.21s
c = 5.8.9.10.11.13.14.15.16 (20)
d = 3.8.9.12s.14s.21
e = 1.3.8s.9.10.18s.19.21.23s (24)
f = 5.8.9.10.11.13s.14.15.16 (20)
g = 2s.6.9s.13s.15.16.19s
h = 2.6.9s.15.16.19s
j = 4s.7s.9.10.16s.17
Start from rounds as the third row of a slow six

79. 5009 James Clatworthy

2314567890E	1	6	7	18	19	
423156E9780			a			
2431			s			A
3124		-		-	-	
1324			s			
2413		-		-	-	
4213			s			
1342		-		-	-	
13426578E90			b			
4213		-		-	-	
3142			A			
3142658790E			c			
4231		-		-	-	
1342			A			
42136587E90	-	-		-	-	
3142			A			
3142658709E			d			
4231		-		-	-	
1342			A			

a = 1.3.7s.8.9.12s.16s.18.21
b = 3.8s.10s.12s.21
c = 12.14.16s.17.18.19 (20)
d = 2.15s

80. 5021 James Clatworthy

2314567890E	6	7	18	19	
243165E9780			a		
3124	-		-	-	
1324		s			
2413	-		-	-	
4213		s			
1342	-		-	-	
13425678E90			b		
4213	-		-	-	
2413		s			
1324	-		-	-	
3124		s			A
2431	-		-	-	
4231		s			
3142	-		-	-	
314256E9780			c		
1342			A		
13426587E90			d		
3142			A		
3142658709E			e		
1342			A		

a = 1s.3.8s.10s.12s.15s.18.21
b = 3.8s.10s.12s.21
c = 3.8s.12s.21
d = 1s.3.8s.10s.12s.21
e = 2.15s

81. 5019 Anthony W T Cleaver

2314567890E	5	6	19
21345678E90		a	
3142		-	2
4123		-	2
4132		s	2
3124		-	2
2143		-	2
216453			-
612354		-	-
213465	-		2
2143		A	
2153648709E		b	
213465			2
2143		A	

A

a = 1.4s.17

b = 2.13s.15s.19s

6951. 5009 Stephen A Coaker

2314567890E	6	9	18	19	
1234567809E			a		
123456789E0			b		
21345678E90			c		
3421		-	-	-	
3412		s	-		
1234		-	-	-	
1243		s	-		A
4312		-	-	-	
4321		s	-		
2143		-	-	-	
1234568790E			d		
1234567980E			e		
2134568709E			f		
2143			A		
21437586			g		
21346578E90			h		
2143			A		
2153648709E			i		
132465			j		
1342			A		

a = 1s.6s.8.9.10.11.12.13.15s (20)
b = 2.10s.15s
c = 7s.10s
d = 2.7s.9.10.13s.15s.18
e = 3.12.13.15s.22s
f = 2.7s.10s.22
g = 3.4.10.12.17s.20.21s
h = 2.9s.13.15s.18
i = 2.6s.13s.15s
j = 3.4.7.9s.12s.17s.19s

6952. 5050 Stephen A Coaker

```
1342658709E  7  9 18
_____________________
1342659708E  3.4.5.6.7s.9.11s.13s (20)
1246385E709  3s.12.16s.19s (24)
12345678E90  1.2.4.5.6.7.9.10.11s.13.15.16s.18s.20.21.23.24.25s.27s (28)
_____________________
2413         s     - |
4321         s     - |
3142         s     - |
1324         s  s  - |A
3412         s     - |
4231         s     - |
2143         s     - |
_____________________
1234567809E  2.7s.9s.15s.18
12345687     2s.13s.15s
2143            A
21437586     3.4.10s.12.17s.21
21436578     2s.4.13.17s
12346578E90  2.7s.9s.15s.18
2143            A
2153648709E  2.6s.13s.15s
123465       6.7.9s.18
2143            A
_____________________
Start from rounds as the third row of a slow six
```

6953. 5058 Stephen A Coaker

1234567890E	1	6	9	10	18	19	
5634128709E				a			
213456				b			
3421		-			-	-	
3412			s		-		
1234		-			-	-	
1243			s		-		A
4312		-			-	-	
4321			s		-		
2143		-			-	-	
123475869E0				c			
21436578E90				d			
2134				A			
13579E24680				e			
531246E9780				f			
2134658709E				g			
2143				A			
2143659E870				h			
21435678E90				i			
4321	s	-		s	-	-	
4312	s		-	-	-		
1243	s	-		s	-	-	
1234	s		-	-	-		
3412	s	-		s	-	-	
3421	s		-	-	-		
2134	s	-		s	-	-	
124638507E9				j			

a = 1s.2s.5s.8.13s.15s.21s
b = 8.14s.16s.21s
c = 3s.7s.9.10.13.18.21
d = 1s.7s.9s.13.15s.18.22s
e = 1s.5.6.7.8s.11s.14.16.17s.19.20s (20)
f = 6.8.10.13.17.18s.21.22
g = 1.2.3.4s.7.8.9.11.12s.16.17s.20.21s
h = 1s.3.12s.22
i = 3.8.10.12.16s.19s.24s (24)
j = 1s.2s.4.5.6.7.9s.11s.13.15s.16.18.19.20.21.22.23.24.25.27.29 (30)
Start from rounds as the last row of a quick six

6954. 5079 Stephen A Coaker

2314567890E	6	7	18	19	
546321			a		
4523618709E			b		
31245678E90			c		
2431		-		-	-
4231		-	-		s
3142		-		-	-
1342		-	-		s
4213		-		-	-
2413		-	-		s
1324		-		-	-
8796543210E			d		
1243657890E			e		
2143			A		
9807654321E			f		
7654321890E			g		
31246578E90			h		
1324			A		
6875432190E			i		
1243658709E			j		
2143			A		

a = 1s.5.6.9s.12s.13.14.15.16.17.18.19 (20)
b = 1.2.5.13.14.15.16
c = 2.5s.7.8.9.13.14.15.16.18s.21s
d = 2.3s.6s.8s.11.13.14s.18.20s.23 (24)
e = 2.3s.5.11s.13.14s.17.23s (24)
f = 2.3.5s.8s.11.12.13s.15s.17.18.19.20.21
g = 2s.5s.7s.9.10.12.13s.15.16.18.19.20.21
h = 1.5.6.7s.14s.16
i = 4.5.6s.10.11.13.18.19s.22
j = 1.5.6.7s.13.14s.16s.18s.20.21.22.23.25s.27s.29 (30)

6955. 5080 Stephen A Coaker

```
1234567890E  6  7 18 19
──────────────────────
13246578E90       a
──────────────────────
2413         -    -  -  ┌─┐
4213            s       │A│
1342         -    -  -  └─┘ ┌─┐
──────────────────────      │B│
3142            s          └─┘
3124              A
──────────────────────
31247568          b
1423657890E       c
1432              A
12436587E90       d
2143              B
1243658709E       e
2143              B
13245678E90       f
3124              B
314628507E9       g
──────────────────────
```

a = 1s.2s.5.7s.8.11.13s.14.17.19.22.25.28 (28)
b = 4.17s
c = 4.7s.10s.13s.17.18.22
d = 1s.2.7s.13s.15.16.18
e = 2.7s.15s
f = 1s.2.4s.5.7.8.9.10.13.14.16.20 (20)
g = 2s.4.5.6.7.9s.10.11.13.16.18.19.20.21.23s.25s.27.29 (30)
Start from rounds as the last row of a quick six

82. 5005 Frank E Darby

1234567890E	6	7	18	19	
5134E276098			a		
5123E4				-	
2143E5		-		3	
4132		-		2	
3145E2		-		-	
31245678E90	11.	12.	13.	19	
2143		-		2	|
4132		-		2	|
3142		-		s	|A
4123		-		2	|
2134		-		2	|
216354				-	
514362		6.14s			
412365		-			
2143			A		
4321658709E			b		
3421		s			
2134		-		-	-
1234		s			
3412		-		-	-
4312		s			
1243		-		-	-
2143		s			

a = 1s.2.4s.6s.8s.18 (20)
b = 2.6.13s.15s.18.19
Start from rounds as the last row of a quick six

83. 5007 Frank E Darby

2314567890E	6	19	
21645378E90		a	
214356		2	
4132	-	2	
3124	-	2	
3142	s	2	A
4123	-	2	
2134	-	2	
216354		-	
2145638709E		b	
213465		-	
3142	-	2	B
4123	-	2	
21456378E90		c	
213465		-	
2143		A	
4125638709E		c	
214365		B	

a = 1.6.7.8.10.11.12.13.15.16.17 (20)
b = 2.5.13s.14.15.19
c = 2.6.13s.15s.19

84. 5007 Mark B Davies
(No 1)

2314567890E	6	7	9	14	16	18	19	
12346578E90				a				
2413		s				-		
4321		s				-		
3142		s				-		
254163		-	s		s	s		Q
514623				s	s	s		
523614		s		s	s		s	
263154				s	s	s		
214365		s		s	s	s	-	
13246587				b				
3412		s				-		
4231		s				-		
21537486				v				
1253		s						
12346587				w				
2143				Q				
1324658709E				c				
3412		s				-		
4231		s				-		
21437586				x				
21536487				y				
1253		s						
123465	s		s			-		
2143				Q				

a = 1.5.8.9.10.11.s13.14.15 (20)
b = 2s.7s.13s.15s.18
c = 2.7s.15s.18
v = 3s.7.12.18
w = 3s.6s.9s.12.18
x = 3s.7s.12.18
y = 3s.6s.12

85. 5007 Mark B Davies
(No 2)

2314567890E	7	9	14	16	18	19	
12346578E90				a			
2413	s				-		
4321	s				-		
3142	s				-		
254163	-	s		s	s		Q
514623			s	s	s		
523614	s		s	s		s	
263154			s	s	s		
214365	s		s	s	s	-	
1342657809E				b			
12536487				c			
1352					s		
12437586				v			
1342					s		
13246587				w			
3412	s				-		
4231	s				-		
42316587E90				d			
32517486				x			
3152					s		
12346587				y			
2143				Q			
1234658709E				e			
2143				Q			

a = 1.5.8.9.10.11.s13.14.15 (20)
b = 2.15.16.18s
c = 2s.6s.13s.15s.18s
d = 2.15s
e = 2.7s.9s.15s.18
v = 3s.6s.12.18s
w = 3s.9s.12.18
x = 3s.6.9s.12.18s
y = 3s.6.7.12.18

86. 5009 Mark B Davies
(No 1)

2314567890E	5	6	7	9	14	16	18	19	
34215678E90					a				
3142							-		
1234						s	-		
2413						s	-		
4321						s	-		
234165					b				
365124	s		s					s	
134625				s		s		s	
645213	-			s		s		-	
2564		-		s		s		s	
243615							s	-	
632514		-		s		s		-	W
521364	s	-		s		s		s	
534162							s	-	
352164		-	-						
514623		-			s	s	s		
263154					s		-	-	
123465		-	-	s	s	s	-	s	
1432							s		
4213						s	-		
2413						s			
2341658709E					c				
1234					W				
2134						s			
1423						s	-		
4123						s			
1342						s	-		

a = 1.s16.18
b = 5.7s.8.9.10.11.13.15s (20)
c = 2.13s.15s.18

188. 5009 Mark B Davies
(No 2)

2314567890E	1	7	9	14	16	18	19	
12346578E90				a				
2413		s				-		
4321		s				-		
3142		s				-		
254163		-	s		s	s		Q
514623				s	s	s		
523614		s		s	s		s	
263154				s	s	s		
214365		s		s	s	s	-	
2314657890E				b				
3241657809E	s	s	s			-		
32516487				c				
31427586				v				
1342		s						
13246587				w				
4231				2u				
42316587E90				d				
31527486				x				
12346587				y				
2143				Q				
1234658709E				e				
2143				Q				
1342658790E	s	s				s		
1342658709E	s							

a = 1.5.8.9.10.11.s13.14.15 (20)
b = 2.10s.15s.18
c = 2s.6s.13s.15s
d = 2.15s
e = 2.7s.9s.15s.18
u = 3.4.12s.16.17.18
v = 3s.6s.12.18s
w = 3s.9s.12.18
x = 3s.6.12.18s
y = 3s.6.7.12.18

87. 5019 Mark B Davies

2314567890E	1	18	19	
21435678E90	-	2		
2341		s		A
2413		2		
2314		s		
231456789E0	s			
2143567809E	-	2		
2341		s		
2413		2		
2314		s		
24315687		a		
2143		-		
2341		s		
2413		2		
236154		s	-	
23146578E90		b		
2431		-		
2341658709E		A		
2143		s		

a = 1.2.10s.13s.15s.18
b = 2.5s.6.9s.13s.14.15.18

88. 5019 Mark B Davies

2314567890E	1	5	6	7	9	14	16	18	19	
32145678E90	-						s	3		
243615			-			s	s	s	-	J
425613			-	-						
263154			-			s	s	s		
123465			-	-	s	s	s	s	-	
1423								-		
1342657809E	2.15s.18									
12346587	2s.13s.15s.18									
2413							s	-		
4321							s	-		
13427586	3s.9s.12.16s.18									
31426587	3s.7s.12									
325164			s		s					
21346587E90	2.6s.15.16.18									
2413								-		
23517486	3s.12.18s.19									
23416587	3s.12.19s									
625134		s		s		s	s		s	
314256			-			s		s		
1234568709E	2.15.16.18									
1342								2		
12345678	2s.13s.15s.18									
14235687E90	2.13s.15s.18									
1342								-		
3214							s	-		
123465					J					
1342								2		
1324658709E	2.9s.15s.18									
3412							s	-		
4231							s	-		
2143							s	-		

89. 5021 Mark B Davies
(No 1)

2314567890E	5	6	7	9	14	16	18	19		
32145678E90					a					
243615	-	s				s	s	-		
425613		-	-							
263154		-				s	s	s		
154263			s	s	s	s		s	Z	X
143652	-		s		s			-		
152643			s		s	s		s		
413256			s		s			-		
4213568709E					b					
4321							-			
3214			s				2			
4132					X					
41326578E90					c					
4321							2			
352164			-							
625134					Z				Y	
314265					s		-	-		
3214658709E					b					
3421							-			
4321			s							
3142					Y					
1342			s							

a = 1.s7
b = 2.13s.15s.18
c = 2.3s.8s.10s.12.13.15s.21s

90. 5021 Mark B Davies

(No 2)

2314567890E	5	6	7	9	14	16	18	19		
32145678E90	1.16s									
243615		-			s	s	s	-		
425613		-	-							
263154		-			s	s	s		J	
123465		-	-	s	s	s	s	-		
2413						s	-			
2341							-			A
625134	s		s		s	s		s		
314256		-			s		s			
3214567809E	2.15s.18									
241365					J					
4213						s				
2341						s	-			
625134	s		s		s	s		s		
314256		-				s		s		
32145687E90	2.13s.15s.18									
6251348709E					A					
134265		s		s	s	s				

91. 5021 Mark B Davies

2314567890E	1	5	6	7	9	14	16	18	19		
32145678E90	-						s				
243615			-			s	s	s	-		
425613			-	-							
263154			-			s	s	s			
123465			-	-	s	s	s	s	-	A	
2413							s	-			
4213							s				B
2341							s	-			
625134		s		s		s	s		s		
312456			-			s		-			
3421								s			
3142								-			
3142567809E	2.15s										
32145687E90	2.13s		.15s		.18						
3142					B						
3241568709E	2.15s			.18s							
3412								2			
3214								s			
625134					A						
134265			s		s	s	s				

92. 5050 Mark B Davies

2314567890E	1	2	13	15	18	
123546E9780			a			
1532					s	
12534678E90			b			
1352					s	
1523					2	
1325					s	
153246789E0	s				-	
1253468709E	-	s	s	s	-	
1352					s	
1523					2	A
1325					s	
1532					-	
1253467890E	-	-	s	s	-	
1352					s	
1523					2	
1325					s	
1532					-	
14235678E90			c			
1342567890E			A			
3124			d			

a = 5s.6.7.13s.14.17.21.25s.26 (28)
b = 3.7.8.12s.16s.18.21
c = 1.5s.7s.9s.14s.18
d = 7s.9s.18

93. 5151 Mark B Davies

2314567890E	5	6	7	9	14	16	18	19	
32145678E90	1.	16s							
243615		-			s	s	s	-	A
425613		-	-						
263154		-			s	s	s		
123465		-	-	s	s	s	s	-	
2341						s	2		
625134	s		s		s	s		s	
214365		s			s	s	s		
1324658709E	2.	13s	.15	.16	.18				
31527486	3s	.12	.16s	.19					
5231		-					-	-	
154273				s		s		s	
123475							s	-	
2143			s	s			-		B
23416587	3s	.12	.18s						
625134	s		s		s	s		s	
314256		-			s		s		
32145687E90	2.	15s	.18						
123465					A				
1423							-		
1324							s		
1234658709E					B				
2143			s	s			-		

94. 5014 Frederick Dench

2314567890E	5	6	19	
31562478E90		a		
316425			2	
615423		-	3	
5146		-	2	
4165		-	2	
215643	-	-	2	A
513642		-	3	
3165		-	2	
6153		-	2	
312456		2A		
3124567890E		b		

a = 1.5.6.7.19
b = 10s.13s.22

95. 5001 Robert E J Dennis

```
 3124567890E  1  6 10 18 19
 ──────────────────────────
 21346578E90        a
 3142             -       2
 4123             -       2
 ──────────────────────────
 412365879E0  10s.13s.15s.22s │
 2134             -       2   │
 3142             -       2   │
 31426587E90        s         │A
 3142658790E  10s.13s.22      │
 4123658709       -  s    2   │
 2134             -       2   │
 3142             -       2   │
 ──────────────────────────
 3142657890E        b
 3241                 s
 3124                 -
 21436578E90  -   -       2
 4132             -       2
 2143658709E        A
 ──────────────────────────
a = 1s.4.6s.7.12.14.16.17.20 (21)
b = 2.12.14.16.17.18.19 (20)
Start from rounds as the fourth row of a slow six
```

96. 5005 Robert E J Dennis

```
1234567890E  1  6  7  9 18 19
──────────────────────────────
21345678E90        a
──────────────────────────────
3421           -      -  -  │
4321              s          │
2143           -      -  -  │
1243              s          │A
4312           -      -  -  │
3412              s          │
1234           -      -  -  │
──────────────────────────────
12346587           b
2134               A
2413658790E        c
──────────────────────────────
4123658709E  s -  s        s  │
512364          2          s  │B
213465         -     s  -      │
3142           -           2  │
──────────────────────────────
1234657890E        d
21346578E90  -     s
3421           -      -  -
4321              s
2143           -      -  -
1243              s
4312           -      -  -
3412              s
3412658790E        e
2143658709E        B
──────────────────────────────
a = 1s.2.15.16
b = 8s.10s.13.14.16.17.18 (20)
c = 10s.13s.18.22
d = 2s.10s.13s.15.16.18
e = 2.10s.13s.15s
Start from rounds as the last row of a quick six
```

97. 5007 Robert E J Dennis

```
2314567890E  1  6 19
-------------------------
21536478E90      a
213465             2
-------------------------
315462           -  3 |
5143             -  2 |A
412365           -  3 |
-------------------------
4123658709E  2.13s.15s
3142             A
3124657890E      b
21546378E90  -   -  3
5142             -  2
413265           -  3
4132658709E  2.13s.15s
2143             A
-------------------------
a = 1.5.7.8.10.11.13s.15s.16.17 (20)
b = 2s.9.10.13s.15s.18
```

98. 5007 Robert E J Dennis

2314567890E	1	6	19	
21546378E90		a		
214365			2	
4132		-	2	
3124		-	2	
3142		s	2	A
4123		-	2	
2134		-	2	
2134658709E		b		
2143		A		
2143658790E	s			
21346587E90	-	s	2	
2143		A		
214365879E0	s			
2143658709E	-			

a = 1.5.7.8.10.11.13s.15.16.17 (20)
b = 2.13s.15s

99. 5007 Robert E J Dennis

2314567890E	1	6	9	18	19
31245678E90			a		
3142			s	-	
4132		-			s
4123			s	-	
2143		-			s
2134			s	-	
123456E9780			b		
21346578E90			c		
3142		-			2
415263		-			3
513264		-			
153246E9780			c		
5132648709E			d		
514362					-
213465		2			2
3142		-			2
3142657890E			e		
3241				s	
3124				-	
21356478E90	-	-			-
412563		2			3
214365		-			-
2143658790E			f		
412563879E0			g		
4132658709E	-				-
3124		-			2
2143		-			2

a = 1.6s.7.19s
b = 3.7.8.12s.21
c = 3.7.8.10s.12s.21
d = 1.2.3.7.8.10s.12s.21
e = 2.12.14.16.17.18.19 (20)
f = 10s.13s.15s.22
g = 1.6.10s.19

100. 5007 Robert E J Dennis

2314567890E	6	9	18	19	
21345678E90			a		
3124	-			s	A
3142		s	-		
4132	-			s	
4123		s	-		
2143	-			s	
21436587			b		
2134			A		
2413658790E			c		
4123658709E			d		B
512364	2			s	
213465	-	s	-		
3142	-			2	
31427568E90			e		
3124			A		
31426578			f		
3124			A		
3412658790E			g		
2143658709E			B		

a = 1.4s.17
b = 4.5.7.8.10s.13s.18 (20)
c = 10s.13s.18.22
d = 1s.6.7s.19s
e = 2.13.15s
f = 4.9s.17s.18
g = 10s.13s.15s.18.22

7391. 5009 Robert E J Dennis

```
3124567890E  6  7 18 19
-------------------------
1234567809E  1s.6s.7.19s
21345678E90  2.15.16
-------------------------
3421           -     -  -  |
4321              s       |
2143           -     -  -  |
1243              s       |A
4312           -     -  -  |
3412              s       |
1234           -     -  -  |
-------------------------
213465         3s.7.8.10s.12s.21s
1234                A
1234657890E    12.14.15.16.17.18.19 (20)
2143           7s.9s.18
12436587E90    1s.2.13s.15.16
2143                A
12537486       3s.6.7.12
2143758609E    2.6.7.15s
21536487       3s.6s.12
124365         -  -
2143                A
-------------------------
Start from rounds as the second row of a quick six
```

7393. 5017 Robert E J Dennis

```
1234567890E  6  7  9 18 19
-------------------------
21345678E90  1s.2.15.16
-------------------------
3421         -        -  -
4321            s        |A|
2143         -        -  -
-------------------------  |B|
21437568     4.6.7.16.17   |
2134               A       |
12346578     4.16.17       |
1243               A       |
-------------------------
4352618709E  2.6.13s.15s.18s
341265          s         s
3421               s  -
2134         -        -  -
1243         -  -        2
215364       -  -
12435678E90  2.5.6s.13.14.15.16
213465             B
3425618709E  2.6.13s.15s.18s.19
431265          s         -
4321               s  -
213564       -        -
1253         -  -        2
214365       -  -
-------------------------
Start from rounds as the last row of a quick six
```

101. 5019 Robert E J Dennis

```
2314567890E  6 19
-----------------
21435678E90  1.4s.9s.17
4132         -  2
3124         -  2
3142         s  2
4123         -  2
216354       -  3
2145638709E     a
-----------------
413562       -  3 |
312564       -  3 |A
213465       -  - |
-----------------
21346578E90  2.13s.15s
3142         -  2
4123         -  2
2143         -  s
4132         -  2
3124         -  2
2135648709E     b
214365          A
-----------------
a = 2.5.13s.14.15.19
b = 2.6.13s.15s.19
```

102. 5019 Robert E J Dennis

```
2314567890E  1  5  6  9 18 19
-----------------------------
31245687           a
2134568709E  s     -        s
-----------------------------
2143                  s  -
4123                  -     s  A
4132                  s  -
3142                  -     s
-----------------------------
31425678E90  2.13s.15s
4132                  -     s
3124                    A
312456E9780  3.8s.12s.21
2134                  -     s
2143                     s  -
4123                  -     s
4132                     s  -
315246             s  -     s
5132                  -     s
314256             s  -     s
31426578E90  3.8s.10s.12s.21
4132                  -     s
3124                    A
21346587     2s.6.13s.15s.19s
3124                  -     s
2143                    A
2134658790E  9.10.13s.18.22
3124658709E  s     -        s
2143                    A
-----------------------------
a = 2s.6s.7.13s.15s.19s
```

103. 5019 Robert E J Dennis

2314567890E	1	5	6	9	18	19	
31245687				a			
2134568709E	s		-			s	
2143				s	-		
4123			-			s	A
4132				s	-		
3142			-			s	
31425678E90				b			
4132			-			s	
3124				A			
312456E9780				c			
2134			-			s	
2143				s	-		
4123			-			s	
4132				s	-		
315246		s	-			s	
5132			-			s	
314256		s	-			s	
31426578E90				d			
4132			-			s	
3124				A			
21346587				e			
3124			-			s	
2143				A			
2134658790E				f			
3124658709E	s		-			s	
2143				A			

a = 2s.6s.7.13s.15s.19s
b = 2.13s.15s
c = 3.8s.12s.21
d = 3.8s.10s.12s.21
e = 2s.6.13s.15s.19s
f = 9.10.13s.18.22

7392. 5050 Robert E J Dennis

1342658709E	6	7	18	19	
21345678E90			a		
3421		-		-	-
4321			s		
2143		-		-	-
1243			s		A
4312		-		-	-
3412			s		
1234		-		-	-
123456E9780			b		
21346587E90			c		
1234			A		
1234657890E			d		
2143			e		
21346578E90			f		
1234			A		
315246E9780			g		
31527486E90			h		
2143758609E			i		
12436587			j		
2143			A		

a = 10.12s.13.16s.18.20.25.26.27.28 (30)
b = 3.8s.12s.21
c = 1s.3.7.8.10s.12s.21
d = 12.14.16s.17.18.19 (20)
e = 7s.9s.18
f = 1s.2.9s.15s.18
g = 3.6.8.10.12s.21
h = 1s.3.10s.12s.21
i = 2.6.7.9s.15.16
j = 3s.7s.12

Start from rounds as the third row of a slow six

8187 5050 Robert E J Dennis

(arr D E House)

2314567890E	1	6	19
21346578E90		a	
315462		-	3
5143		-	2
412365		-	3
4123658709E	2.13s.15s		
3142		A	
3124657890E		b	
21546378E90	-	-	3
5142		-	2
413265		-	3
4132658709E	2.13s.15s		
2143		A	
3124568790E	1s.5.7.8.10.11.13.15s (20)		
31245678	1.12.14.16s.17.18.19 (20)		

A

a = 1.4.6.11.16.17.18.19.24.26s.28s.31 (32)

b = 2s.9.10.13s.15s.18

104. 5089 Robert E J Dennis

1234567890E	1	6	7	18	19	
21345678E90			a			
1234			s			
3412		-		-	-	
4312			s			
1243		-		-	-	A
2143			s			
4321		-		-	-	
3421			s			
346152		s				
2135476980E			b			
3412658790E			c			
4312658709E	s		s			
123564		-		-		
2153		-	-		2	B
124365		-	-			
23147568E90			d			
32517486			e			
314275				-	-	
315274					s	C
324175				-	-	
3251748609E			f			
324175			C			
21346578E90			d			
3421			A			
3421658709E			g			
4321			s			
2143			B			

a = 1s.2.15.16
b = 3.7.12.23 (24)
c = 2.4.7.9 (10)
d = 2.13.15.16.18
e = 13s.15.16.19.22s
f = 2.15s.19s
g = 2.13s.15s
Start from rounds as the last row of a quick six

105. 5232 Robert E J Dennis

2143658709E	1	5	6	9	14	18	19
4351627890E				a			
43215678E90	-	-			s		s
4312				s		-	
436251			s				
431265		-			s		s
4321				s		-	
4351628790E				b			
4321658709E	s						s
435261							-
431265							s

4-part
a = 3.6.9s.13.14.16.17.18.19 (20)
b = 9.10.13s.15s.18.19.22
Start from rounds as the first row of a slow six

106. 5273 Robert E J Dennis

3124567890E	1	6	7	9	18	19	
1234567809E	s	s	-			s	
21345678E90	2.	15.	16				
3421			-			-	-
4321			s				
2143			-			-	-
1243			s				A
4312			-			-	-
3412			s				
1234			-			-	-
123456E9780	3.	8s.	12s.	21			
21346587E90				a			
1234				A			
1234657890E				b			
2143				s	s	-	
21346578E90	1s.	2.	9s.	15s.	18		
1234				A			
315246E9780	3.	6.	8.	10.	12s.	21	
31527486E90	1s.	3.	10s.	12s.	21		
2143758609E	2.	6.	7.	9s.	15.	16	
21536487	3s.	6s.	12				
124365			-	-			
2143				A			

a = 1s.3.7.8.10s.12s.21
b = 12.14.16s.17.18.19 (20)
Start from rounds as the second row of a quick six

107. 5350 Robert E J Dennis

1342658709E	6	7	9	18	19	
43215678E90			a			
3421		s				
2134	-			-	-	
1234		s				
3412	-			-	-	
4312		s				
1243	-			-	-	
2143		s				
21437568			b			
4321	-			-	-	
3421		s				A
2134	-			-	-	
21346578			c			
3421	-			-	-	
3412			s	-		B
1234	-			-	-	
2135648709E			d			
1253	-	-			2	
124365					s	
432561	-			-		C
3452	-	-			2	
341265					s	
34127568E90			e			
4312			B			
43126578			c			
4321			A			
3425618709E			d			
214365			C			

a = 3.6.7.12.23s.26.28.31.33 (34)
b = 4.6.7.16.17
c = 4.7s.16.17
d = 2.6.7.13s.15s.19
e = 2.13.15s
Start from rounds as the third row of a slow six

7394. 5350 Robert E J Dennis

```
1342658709E  6 19
-------------------
1354720689E  3.12.19
21435678E90  1s.4.6.9.11 (12)
-------------------
4132         -  2 |
3124         -  2 |
3142         s  2 |A
4123         -  2 |
216354       -  3 |
-------------------
2145638709E  2.5.13s.14.15.19
-------------------
413562       -  3 |
312564       -  3 |B
213465       -  - |
-------------------
21346578E90  2.13s.15s
215463         A
2135648709E  2.13s.15s.19
214365         B
-------------------
```

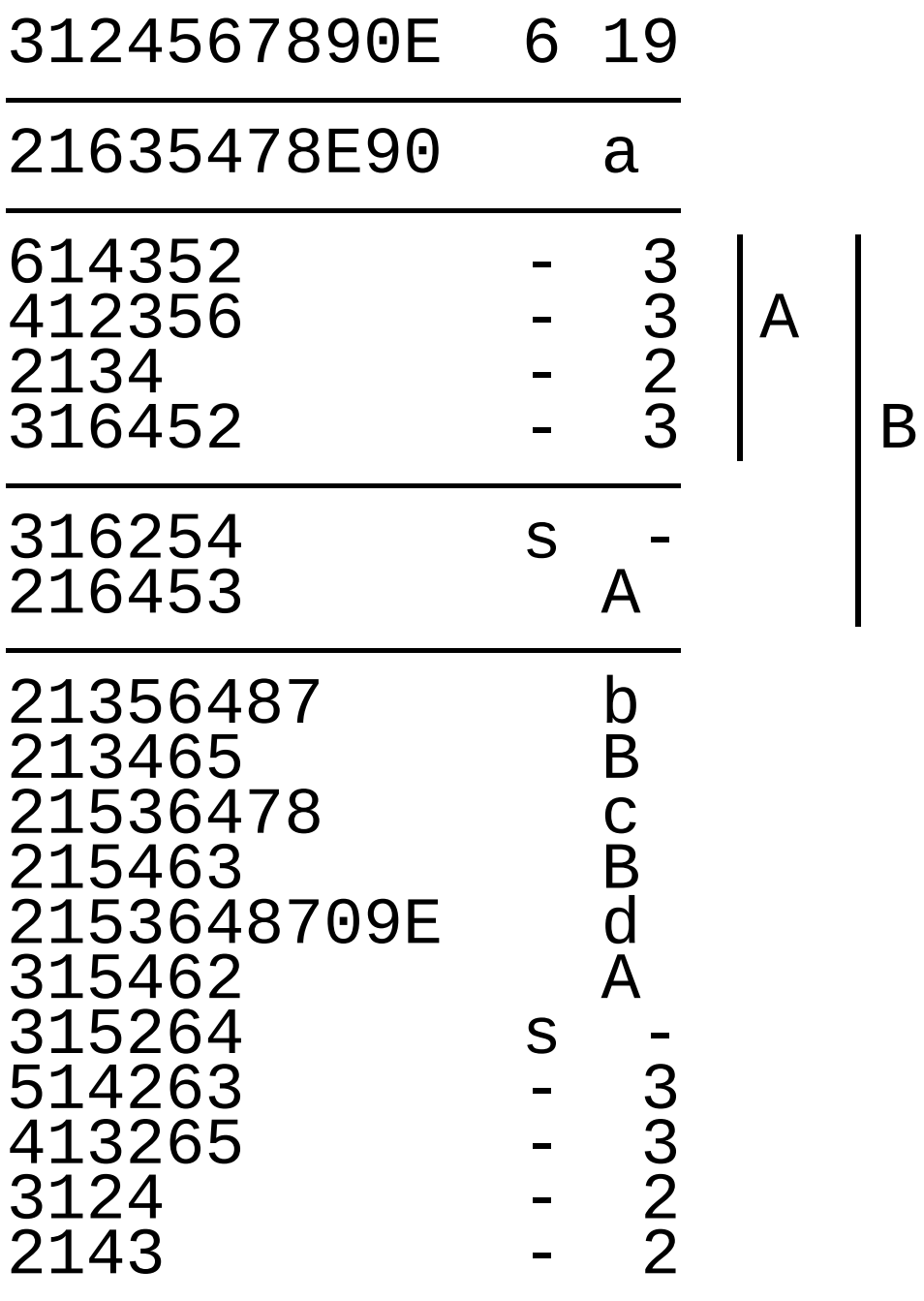
Start from rounds as the third row of a slow six

7395. 10001 Robert E J Dennis

```
3124567890E  1  6  7  9 18 19
──────────────────────────────
43215678E90  1s.2.10.12s.17s.19s.20 (20)
2143            -        -  -
1243               s
4312            -        -  -
3412               s
1234            -        -  -
1234568790E  2s.12.14.16.17.18.19 (20)
3412568709E  s  -        -  -
4312               s
1243            -        -  -
2143               s
4321            -        -  -
3421               s
2134            -        -  -
21345678E90  2.13s.15s
3421            -        -  -
41236587     7.8.9.10.13.14.16.17.18 (20)
──────────────────────────────
215364          -                 │
213465          s     s  -        │
3142            -           2     │
4132            -           s  │A
315264          -                 │
312465          s     s  -        │
2143            -           2     │
──────────────────────────────
41237568     6.13.15s.19s.22s
2143                A
4123758609E  2.6.13s.15s.19s
2143                A
41237586E90  2.6.15s.19s
2143                A
41236578     6.13.15s.19s.22s
2143                A
4123658709E  2.6.13s.15s.19s
2143                A
──────────────────────────────
```

Start from rounds as the second row of a quick six

10089. 12609 Robert E J Dennis



a = s1.3.5.8.9.17.18.19.22.30.32 (33)
b = s2.5.s13.14.15.19
c = s2.s13.s15.19
d = 2.s6.s13.s15.19

Start from rounds as the fourth row of a slow six
Omit any 3 for 12345

108. 20001 Robert E J Dennis

```
3124567890E  1  6 19
_____________________
216354          a
61435278E90  -  -  3
412356          -  3
2134            -  2
3142            -  2
3164528709E     b
_____________________
612453          -  3 |
213456          -  3 |A
3142            -  2 |
4123            -  2 |
_____________________
416352             s
41526387E90     c
213465          A
21537486        d
314275          A
3154728609E     e
412375          A
41526378E90     f
213465          A
2153648709E     b
314265          A
315462             -
31625478E90     g
214356          A
2164538709E     b
413256          A
416253             s
41536287E90     c
312465          A
31527486        d
214375          A
2154738609E     e
_____________________
312475          2  3 |
2143            -  2 |B
4132            -  2 |
_____________________
41536278E90     f
312465          B
3152648709E     b
214365          B
_____________________
```

a = 1s.3.5.11s.18s.19.30.32 (33)
b = 2.13s.15s.19
c = 2.5.6s.14.15.19
d = 3s.12.19
e = 2.15s.19
f = 2.3s.12.13s.15s.19
g = 2.5.6s.13s.14.15.19

Start from rounds as the fourth row of a slow six

2581. 5007 Matthew Durham

2314567890E	1	6	19	
21536487E90		a		
214365879E0	s	s		
215364		s		
51246387E90	s	-	-	
312564		2	-	A
415263		2	2	
314265		2		
3142658709E		b		
413562		-	-	
215364		A		
21436587E90		c		
412563		-	-	
315264		A		
3152648709E		b		
513462		-	-	
214365		A		

a = 1.5.8s.9.10.13s.17s.18 (20)
b = 2.15s
c = 2.6s.15s

2579. 5021 Matthew Durham

2314567890E	5	6	7	9	14	16	18	
3124568709E				a				
1432			s				-	
4213			s				-	
2341			s				-	
3214			s	s			-	A
2431			s				-	
4123			s				-	
1342			s				-	
31245678E90				b				
1342				A				
134256E9780				c				
315246		-			s	s		
1352						s		
136245		-	-		s			
134265		-			s			
13426578E90				c				
31246587				d				
1342				A				
3124658709E				e				
1342				A				

a = 1s.2s.6.13s.15.16.19s
b = 2.7s.9s.13s.15s.18
c = 3.8s.12s.21
d = 2s.7s.9s.13s.15s.18
e = 2.7s.9s.15s.18

2580. 5021 Matthew Durham

2314567890E	5	6	7	9	14	16	18	
3124568709E				a				
1432			s				-	A
4213			s				-	
2341			s				-	
3214			s	s			-	
2431			s				-	
4123			s				-	
1342			s				-	
31245678E90				b				
1342				A				
134256E9780				c				
315246		-			s	s		
1352						s		
136245		-	-		s			
134265		-			s			
3124			s	s			-	
31246578E90				c				
1342				A				
3124658709E				b				
1342				A				

a = 1s.2s.6.13s.15.16.19s
b = 2.7s.9s.13s.15s.18
c = 3.8s.12s.21

2582. 5271 Matthew Durham

2314567890E	6	7	18	19	
23146578E90			a		
3214	-	-		s	
3421			-		
4321	-	-		s	
4132			-		A
1432	-	-		s	
1243			-		
2143	-	-		s	
2314657890E			b		
2143			A		
231465879E0			c		
2143			A		
23146587E90			d		
2143			A		
2314658709E			e		
2143			A		

a = 1s.2.4s.5.7.8.9.10.20s (20)
b = 2.10s.15s.18
c = 1s.2.10s.13s.15s.18
d = 10s.18
e = 2.15s.18

Reduce to 3007 by replacing any two consecutive courses called 6.7.19s, 18 with one course called 7s.18 on two occasions

109. 5016 Philip J Earis

```
 2314567890E
 ----------

 35179E24680    a
 09E87654321    b
 12E34567890    c
 ----------

11-part
a = 2s.3.4.5.8.9.10.12.14.15.18.23 (28)
b = 4.5.6.7.10.11.12.15.20.21
c = 3.6s.7.8.11.12.13.14.15.18.20 (26)
```

110. 5040 Philip J Earis

2314567890E

45312768E90 1.2.7.8.10s.14.17.19.21.23s.25s.27 (28)

30 pent

14509. 5007 Mark R Eccleston

```
2314567890E  5 16 18
-------------------
24135678E90  s1.2.s15.s18
-------------------
4321              s  -  |
3142              s  -  |A
1234              s  -  |
-------------------
E9078563412  1.8.9.20 (28)
E1234567890  1.s3.5.s7.s9.10.11.15.s17.18.19 (20)
234567890E1  1.2.3.6.7.8.9.10.15.18.19.21 (24)
24135768E90  1.2.6.s8.s10.11.13.20 (20)
1234            A
24136587     4.8.9.10.12.13.16 (20)
1234            A
2413658709E  2.s7.s15.18
1234            A
13245678E90  2.5.7.8.s10.s13.16.s18.s20 (20)
2143            A
13579E24680  1.2.5.7.s9.11.13.s15.s20.21
531246E9780  1.2.5.6.7.10.13.s15.16.17.20
123456       -      -
13245768E90  s4.s6.s8.s10.17.21
2143            A
13246587     4.8.9.10.12.13.16 (20)
2143            A
1324658709E  2.s7.s15.18
2143            A
```

14055. 5007 Mark R Eccleston

```
2314567890E  5 16 18
_____________________
24135678E90  s1.2.s15.s18
4321            s  -
3142            s  -
1234            s  -
E9078563412  1.8.9.20 (28)
E1234567890  1.s3.5.s7.s9.10.11.15.s17.18.19 (20)
234567890E1  1.2.3.6.7.8.9.10.15.18.19.21 (24)
24135768E90  1.2.6.s8.s10.11.13.20 (20)
4321            s  -
3142            s  -
1234            s  -
24136587     4.8.9.10.12.13.16 (20)
4321            s  -
3142            s  -
1234            s  -
2413658709E  2.s7.s15.18
1234           3x
13579E24680  s1.s3.s6.8.s10.11.12.14.16.17.18.20 (20)
531246E9780  1.2.5.6.7.10.13.s15.16.17.20
123456       -     -
13245678E90  s3.4.s8.s12.17.21
3412            s  -
4231            s  -
2143            s  -
13245768     s4.s6.16.17.18
3412            s  -
4231            s  -
2143            s  -
13246587     4.8.9.10.12.13.16 (20)
3412            s  -
4231            s  -
2143            s  -
1324658709E  2.s7.s15.18
2143           3x
_____________________
x = 3,4,s12,16,17,18
```

5795. 5053 Ian R Fielding

```
 1234567890E  1  6  7 19
 ____________________________
 12345687     1s.10s.13s.15s.22s
 21345678E90  1s.2.7s.13s.15s
 90E78563412  7.9.11s (28)
 24135678E90  1.10s.13.15 (16)
 5463217890E  5.6.12.14.15.16.17.18.19 (20)
 24315678E90  1.5.6.9s.18
 412365       5.7.8.10.11.13.14.15 (20)
 2134            -     2
 3142            -     2
 3142658709E  2.13s.15s
 4123            -     2
 215364          -     3
 21437586     3.4.12.17s.19s
 215374             s
 1253            s
 12537486E90  2.15s
 2153            s
 3124567809E  2s.3.6.9s.12.13.14.15.16.18s.19
 312456789E0  12.14.15.16.17.18.19 (20)
 31245678E90  10s
 13579E24680  3.5.6.8s.9.12.14.15.16 (16)
 3124657890E  1.3s.5s.6.7.10.11.13.14.18.19.20 (20)
 21436578E90  -  -     2
 4132         -     2
 1234E975680  3s.7.8.9.10.12.14.15.16.17.18.19.20 (20)
 12345679E80  8s.10s.12s.13.21.22
 123456E9780  3.12s
 4132658709E  1.2.3.8s.9.10.12s.16s.21
 3124            -     2
 2143            -     2
 ____________________________
```

Start from rounds as the last row of a quick six

111. 5079 Ian R Fielding

2314567890E	1	6	7	19
2143657809E			a	
21346578E90			b	
3142		-		2
4123		-		2
4123658709E			c	
214563		-		-
213465			x	
215364				-
5132		-		2
315462		-		-
312564			x	
314265				-
32417586			d	
235174		-	-	
3251			s	
23417586E90			e	
325174		-	-	
2351			s	
3124567809E			f	
312456789E0			z	
31245678E90	10s			
13579E24680			g	
3124657890E			h	
21436578E90	-	-		2
4132		-		2
4132658709E			c	
314562		-		-
312465			x	
315264				-
5123		-		2
215463		-		-
213564			x	
214365				-

a = 1s.5.7.8.10.11.13s.15.16 (20)
b = 2.9s.15s.18
c = 2.13s.15s
d = 3.4.9s.12.17s
e = 2.6.7.15s
f = 2s.3.6.12.13.14.15.16.18s.19
g = 3.5.6.8s.9.12.14.15.16 (16)
h = 1.3s.5s.6.7.10.11.13.14.18.19.20 (20)
x = 3.4.12s.17s.19
z = 12.14.15.16.17.18.19 (20)

112. 5081 Ian R Fielding

3124567890E	1	6	10	18	19
13579E24680		a			
3124657809E		b			
31426578E90	2.9s.	15s.	18		
4123		-			2
2134		-			2
315246E9780		c			
12537486E90		d			
2143758609E	2.6.7.	15s			
21456387	3s.6s.	12.	19		
213465		x			
215364					-
5132		-			2
315462		-			-
312564		x			
314265					-
3241657890E		e			
3124	s		s	-	
21436578E90	-	-			2
4132		-			2
1234E975680		f			
12345679E80		g			
123456E9780	3.12s				
41326587E90		h			
3124		-			2
2143		-			2
2143658790E	10s.	13s.	22		
4132658709		-	s		2
3124		-			2
2143		-			2

a = 1.3.5.6.8s.9.12.14.15.16 (16)
b = 1.5.7.10.11.13.14.18s.19.20 (20)
c = 3.6.8s.10.12s.21
d = 1s.3.7s.9.10.12s.21
e = 2.9s.12.14.16.17.18.19 (20)
f = 3s.7.8.9.10.12.14.15.16.17.18.19.20 (20)
g = 8s.10s.12s.13.21.22
h = 1s.3.8s.9.10.12s.16s.21
x = 3.4.12s.17s.19
Start from rounds as the second row of a quick six

113. 5009 Richard B Grimmett

2314567890E	1	6	9	16	18	19	
14235678E90				a			
4123				s			
2341		-			-	-	A
3241				s			
14325678E09				b			
2314		-	s	s		s	
3214				s			
3241			s		-		
41325678E90				c			
2314				A			
5463217890E				d			
23145687				e			
24315687E90	-				-		
243165				f			
1342				A			
4213		-			-	-	
4213658790E				g			
2413658709E	s			s			
1324		-			-	-	
3124				s			
1324658790E				h			
24136587E09				i			
4213				s	3		
2314657890E				j			
13246578E90	-	-				s	
4231				A			
2431658709E				k			
1342				A			

a = 1s.2.6.9s.15s.19s
b = 1s.6.9.10.13s.16s.19s.22
c = 1s.6.9.10.13s.19s.22
d = 5.6.9s.12.14.15.16.17.18.19 (20)
e = 1.5.6.9.10.13s.15s.22
f = 3s.8s.10s.12s.21s
g = 10s.13s.22
h = 10s.16s
i = 2.6.15s.18.19
j = 2.13s.15.16.18s
k = 2.13s.15.16

114. 5141 Richard B Grimmett

2314567890E	1	7	9	16	18	19	
34215678E90				a			
4132		s			-		
1243		s			-		
2134		s	s		-		
1423		s			-		
4312		s			-		
3241		s			-		
2314		s	s		-		
2314568790E				b			
3241568709E	s	s	s		-		
321465				x			
3421					-		
125364			s	s	2	s	
12437586				y			A
125374						s	
12436587				y			
32146587E90				c			
2431		s			-		
4213		s	s		-		
235164		s			-	s	B
23417586				y			
235174						s	
23416587				y			
3124		s			-		
1342				B			
1342658790E				z			
2314658709E				d			
1342				A			

a = 1s.2.7s.15s.18
b = 10s.13s.15s.22
c = 2.9s.15.16.18
d = 9.10.16s.18
x = 3s.8.9.10s.12s.18.21s
y = 3.4.12.17s.19s
z = 12.14.15.16.17.18.19 (20)

14506. 5250 Richard B Grimmett

```
31527496E80  6  9 16 18
-------------------------------
42135678E90  2.3.4.5.6.8.s10.14.16.19.21.s23.26 (26)
-------------------------------
4321                   -  |
3214                s  2  |A
4123             s  s  2  |
-------------------------------
1234                s  2
908E6745312  1.2.3.4.5.6.7.9.11.13 (14)
426371E5890  1.4.5.6.7.9.10.13 (14)
14326578E90  1.2.4.6.9.11 (12)
1342              A
1342657890E  12.14.15.16.17.18.19 (20)
2314         s1.9.10.s16.18
4253618709E  s1.s2.s6.s9.s13.15.16
4352            s
423165       s          -
2431               s
2413            s     -
4213               s
13526487E90  2.6.s9.s15
13527486     2.3.12.s15
12536487     2.3.s9.12.s15
12537486     2.3.12.s15
134275       s          s
31246587     2.3.s7.s9.12.s15.18
3142            s     -
1342               s
1352648709E  2.s6.s15
13527486     3.4.12.s17
12536487     3.4.s9.12.s17
12537486     3.4.12.s17
134275       s          s
31246587     3.4.s7.s9.12.s17.18
3142            s     -
1342               s
1234567890E  s1.s4.5.7.8.9.10.s13.16 (20)
-------------------------------
Start from rounds as the last row of a slow six
```

115. 5005 Robin O Hall

```
 1234567890E
 ──────────
 1234567809E  s1.s10.s12.14.15.16.17.18.19.20 (20)
 24135678E90  1.s13.s16.18.22
 ──────────
 4321         s16.18 │           │
 3142         s16.18 │A          │
 1234         s16.18 │           │
 ──────────          │           │
 12347568     4.6.7.16.17        │
 12537486     s13.s15.19.s22     │
 21436587     s3.6.7.12          │
 1324         s7.18              │
 13248765     4.s11.s17.20       │B
 1324876590E  s10.s13.22         │
 13246578     4.s6.s11.s17.20    │
 ──────────                      │
 3142657809E  s7.9.10.18         │
 31526487     s13.s15.s19.s22    │
 31427586     3.4.12.s17.s19     │
 12346587     3.4.12.16.17.18    │
 3142           A                │
 ──────────                      │
 563412       7.s14.s16.19
 34125678E90  2.5.s8.9.s13.s15.s21
 ──────────
 2143658709E    B
 ──────────
Start from rounds as the last row of a quick six
```

1577. 5028 Robin O Hall

```
1234567890E  7 18
─────────────────
12348765     s1.2.s7.8.11.12.s16.s19.20.26.28.30.33.35 (36)
─────────────────
24135678E90  1.3.4.6.7.12.s17.18
─────────────────
4321         s  -
3142         s  -  A
1234         s  -
─────────────────
1234568790E  12.14.s16.17.18.19 (20)
1234658709E  s1.5.s8.10.11.s13.s15.16 (20)
3142          3x
563412       7.s14.s16.19
─────────────────
123465E7908  7.s10.14.15
3142           A
─────────────────
3152748690E  2.3.s6.12
13246587E90  1.s3.6.7.s9.12.18
2143           A
─────────────────
2153648790E  s6.12.14.15.16.17.18.19 (20)
1324658709E  s1.6.7.18
4231          2x
21437586     3.4.12.16.17.18
21436587     3.4.12.s17
─────────────────
132465E7908  s1.15.16.18
2143           A
1234657890E  s7.s9.s13.s15.18
─────────────────
13245678E90  1.5.7.8.10.11.s13.s15.16 (20)
2143           A
─────────────────
21437568     4.6.7.16.17
1234         s7.s9.18
1234567890E  s3.4.5.s7.8.9.12.14.15.16.17 (18)
─────────────────
x = 3.4.s12.16.17.18
Start from rounds as the last row of a quick six
```

116. 5029 Robin O Hall

1234567890E	6	7	9	18	19	
1234568709E			a			
2413		s		-		A
4321		s		-		
3412		s	s	-		
4231		s		-		
2143		s		-		
12345678E90			b			
2413		s		-		B
4231			A			
2143		s		-		
1254638709E			c			
241365		-	-		-	C
245361	s					
432165		-	-		-	
435162	s					
314265		-	-		-	
315264	s					
123465		-	-		-	
12346587E90	2.15s					
2143			B			
2153648709E	2.6s.15s					
214365			C			

a = 1s.2s.13s.15s
b = 2.7s.9s.13s.15s.18
c = 2.3.4.8.10.13s.15.16.17.18.21s.22.23 (24)
Start from rounds as the last row of a quick six

1575. 5051 Robin O Hall

2314567890E	1	6	7	16	18	
908E6745321			a			
24135678E90			b			
4321				s	-	
3142				s	-	
1234				s	-	
324165E7089			c			
213465E7908	-			s	-	
1234658790E	15.16					
24136587E90	-			s	-	
4321				s	-	A
3142				s	-	
3152648709E	2.s6.s15					
123465		-	-		-	
125463		s				
241365		-	-		-	
245361		s				
432165		-	-		-	
435162		s				
314265		-	-		-	
563412	7.s14.s16.19					
34125678E90			d			
2143658709E			A			

a = s1.6.7.8.19.20.21.23 (27)
b = s1.2.s3.s11.12.13.14.s17.18.23 (26)
c = 2.5.s8.10.11.13.14.15.16.20 (20)
d = 2.s5.6.s9.s13.s15.19
Start from rounds as the second row of a slow six

1576. 5125 Robin O Hall

1234567890E	1	6	7	16	18						
24135678E90	s1.	2.	15.	16.	18						
4321				s	-						
3142				s	-						
1234				s	-						
143265E7089	2.	5.	s8.	10.	11.	s13.	15.	20	(20)		
421365E7908	-			s	-						
2341				s	-						
3152648790E	15.	16.	18.	19							
1234658709E	s	-	-		-						
125463		s									A
241365		-	-		-						
43216587E90	2.	15.	16.	18							
3142				s	-						
1234				s	-						
2413				s	-						
2453618790E	s10.	s13.	s19.	22							
4321658709E	s	-	-		-						
435162		s									
314265		-	-		-						
563412	7.	s14.	s16.	19							
34125678E90	2.	s5.	6.	s9.	s13.	s15.	19				
2143658709E			A								

Start from rounds as the last row of a quick six

117. 7728 Robin O Hall

```
 1234567890E  1  6  7 18
 ──────────────────────
 12348765     s1.2.s7.8.11.12.s16.s19.20.26.28.30.33.35 (36)
 21435678E90  1.3.4.6.7.s9.12.s17.18
 ──────────────────────
 1324              s  -  │
 3412              s  -  │A
 4231              s  -  │
 ──────────────────────
 7890E123456  1.2.s7.10.15.16.17.18.19 (26)
 E1234567890      4x
 4321658790E  3.s9.s12.15.16.17.18.19.20 (20)
 4351628709E  s  s
 314265          -  -  -
 315264          s
 123465          -  -  -
 125463          s
 241365          -  -  -
 245361          s
 123456E9780  2.13.14.16.17.18.19.s21.22.24.26.29.31 (32)
 23416587E90  s1.s3.4.7.8.9.10.s12.17.21
 23517486     s3.s6.12
 31246587     s3.s6.12.s16.18
 1432              s  -
 4213              s  -
 54321E09876  1.2.s4.6.9 (12)
 E0987654321      5x
 3214658790E  s7.s10.13.15 (16)
 24316587E90  -    s  -
 4123              s  -
 1342              s  -
 531246E9780  s7.s9.13.14.16.17.18.19.21.22.24.26.29.31 (32)
 3251648709E  1.2.3.7.8.s10.s12.18.21
 423165       7.s16.s19
 21437586     3.4.12.16.17.18
 21436587     3.4.12.s17
 1324         s1.s7.s10.18
 135462          s
 341265          -  -  -
 1234657890E  s2.6.s10.s13.s15.18.19
 24137568E90  1.4.16.17.18
 1234             A
 1234568790E  s3.4.5.s7.8.9.s12.14.15.16.17 (18)
 24135678E90  s1.2.s7.s13.s15.18
 1234             A
 1234567890E  12.14.15.16.17.18.19 (20)
 ──────────────────────
x = s1.2.5.6.8.s12.13.s16.s21.24.26.28.31.33 (34)
Start from rounds as the last row of a quick six
```

118. 5005 Robert E Hardy

```
1234567890E  6 19
```

```
412356E9780    a
2134         -  2
3142         -  2
4132         -  s
3124         -  2
2143         -  2
21435678E90    b
```

```
4132         -  2 |
4123         s  2 |A
2134         -  2 |
```

```
2134657890E    c
2143           A
21436587E90    d
2134           A
2134658709E    e
2143           A
```

---

a = 1s.3.7s.8.9.12s.15.16.18.21
b = 3.8s.12s.21
c = 1.2.4s.5.7.9.10.11 (20)
d = 1s.2.13s.15s
e = 2.15s
Start from rounds as the last row of a quick six

119. 5031 Robert E Hardy

2314567890E	6	19	
2134		a	
3142		2x	A
213465		y	
3142		2x	
21346578E90		b	
3142	-	2	B
4123	-	2	
314256		y	
4123	-	2	
2134	-	2	
214365		z	
214356		B	
21435687		c	
413265		A	
412356		z	
3142		x	
3124568709E		d	
214365		A	

a = 5s.6.7.8.10.11.13s.15s.16 (20)
b = 1s.2.6.9s.15.16.18.19
c = 2s.13s.15s
d = 2.9s.15s.18
x = 5s.6.7.8.10.11.13.15s (20)
y = 5.7.8.10.11.13.15s (20)
z = 5.7.8.10.11.13s.15s (20)

120. 5091 Robert E Hardy

2314567890E	6	19	
216354		a	
213456		2	
3142	-	2	
4123	-	2	A
315462		b	
314265		2	
4123	-	2	
2134	-	2	
21546378E90		c	
214365		2	
4132	-	2	
214356		A	
4126538709E		d	
413256		-	
214365		A	

a = 5s.6.7.8.10.11.13s.15s.16.17 (20)
b = 5.7.8.10.11.13.15s.17 (20)
c = 1.5s.6.7.8.10.11.13s.15s.17 (20)
d = 2.6.13s.15s.19

121. 5007 Geoffrey S Harris

2314567890E	1	6	19	
21345678E90		a		
216354			-	
214356			s	
4123		-	s	A
416253			-	
413256			s	
3124		A		
3124568790E		b		
3162548709E	s		-	
314256			s	
2134		2A		
21346578E90		c		
215364			-	
214365			s	
21436587		d		
4132		A		
3142		-	s	
31426578		d		
315462			-	
312465			s	
4123658790E		e		
4152638709E	s		-	
413265			s	
2143		2A		

a = 1.4s.11s.17.20s
b = 10s.13s.15s.22
c = 2.5s.7.8.10s.13s.17s.18.20s (20)
d = 13s.15s.22s
e = 7s.9.10.13s.15.16.22

122. 5007 Geoffrey S Harris

2314567890E	1	6 19		
41325678E90		a		
316254		-		
312456	6s.9s.18			
31245768	4s.6s.17s		A	
4132658790E		b		B
3152648709	s	- 3		
31426578E90		c		
315246	5.6s.14s			
5132		- s		
314256		B		
4123		d		
215346		B		
5123		- s		
2143658709E		A		

a = 1.4s.7s.9s.16s.17
b = 3.9.10.13s.15.16.18.21
c = 2.6s.13s.15s
d = 6.8.10.11.12.13.14.15 (20)

123. 5007 Charles H Hattersley

2314567890E 6 19

21546378E90 a

213465 s
315462 - 3
5143 - 2
412365 - 3
214563 - - A
213564 s
314562 - 3
412563 - 3
214365 - -

2154638709E b
214365 A

---

a = 2.5.7.8.10s.16.17.18.20 (20)
b = 2.13s.15s.19

124. 5007 Charles H Hattersley

2314567890E	6	19	
21436578E90		a	
412563	-	-	
312465	2	-	
513462	2	3	
3145	-	2	A
4153	-	2	
4135	s	2	
312564	-	3	
2153	-	2	
2153648709E		b	
214365		A	

a = 1.5.7.8.10.11.13s.15.16 (20)
b = 2.13s.15s

1951. 5019 Charles H Hattersle

2314567890E	5	6	19	
51632478E90		a		
614253	-		-	
514362	-	-	-	
412653	-		-	A
213654		-	3	
314652		-	3	
4163		-	2	
615342		A		
415263	-	-	-	
516243	-		3	
612354	-		2	
513264	-	-	2	
314265		-	3	
4123		-	2	
215364		-	3	
2143658709E		b		

a = 1.4.5.17.19

b = 2.5.6.13.14.15s

125. 5021 Graham R Hayward

3124567890E	6	19	
21345678E90		a	
3142	-	2	A
4123	-	2	
4132	s	2	
3124	-	2	
2143	-	2	
213465		b	
2143		A	
21346578E09		c	
2143		A	
4132658709E		d	
3124	-	2	
2143	-	2	

a = 1s.2.6.9s.15s.18.19
b = 1.2.3.5.7.8.11.12.13.14.16.18 (18)
c = 1.3s.5.6.7.11s.13s.15s (20)
d = 4s.5.7.9s.10.12s.15.18s.19.21s.22.24 (28)
Start from rounds as the second row of a quick six

126. 5302 Graham R Hayward

```
2314567890E
```

21345678E90	1.4s.17	
21345687	13s.15s.22s	A
213465	3s.8s.10s.11.12.20.21	
21346578	13s.15s.22s	
214356	3s.8s.9.10.12s.18.21s	
21435687	13s.15s.22s	
214365	3s.8s.10s.11.12.20.21	
21436578	13s.15s.22s	
21345678E09	3s.8s.9.10.12.13.18.21s.22	
21345687	13s.15s.22s	B
213465	3s.8s.10s.11.12.20.21	
21346578	13s.15s.22s	
214356	3s.8s.9.10.12s.18.21s	
21435687	13s.15s.22s	
214365	3s.8s.10s.11.12.20.21	
34125678	1.4s.6s.9s.10.15.18s.19.21 (28)	
342165	A	
3412567890E	2s.3.8s.9.10.12s.15s.18.21s	
342165	A	
4312	6.7.8.10.11.12.13.14.15 (20)	
432156	A	
3124	3s.7s.9s.12s	

127. 5019 Alexander E Holroyd

```
2314567890E  6  7 18 19
-------------------------
21345678E90  1.4s.17
3421           -     -  -
4321              s
2143           -     -  -
1243              s
126345       5.14s.19s
124365       5.14s
-------------------------
4312           -     -  -  |
3412              s       |
1234           -     -  -  |
2134              s       |A
3421           -     -  -  |
4321              s       |
2143           -     -  -  |
-------------------------
1243657809E  2.7s.15s
2143               A
12436587E90  2.7s.13s.15s
2143               A
1243658709E  2.7s.15s
2143               A
```

128. 5001 Thomas Hooley

3124567890E	5	6	7	9	16		
31465278E09			a				
31625478E90			b				
314256		s					
216453		s	-	s	s		
213456		s				A	
416352		s	-	s	s		B
412356		s					
316452		-	-	s	s		
214356			A				
614325	s		-		s		
315264	s	-	-	s	s		
214365			B				
3152648709E			c				
214365			B				

a = 1s.5s.6.8.9.10.12s.13.15.16.17.18 (19)
b = 1.6s.9.10.18
c = 2.6.7.9s.13s.15.16
Start from rounds as the fourth row of a slow six

129. 5002 Thomas Hooley

2314567890E	6 19	
312465	a	
31246587	2s.13s.15s	
31527486	3s.12.19	
3152748609E	1.2.15s	
314275	s	
215374	6.7.9s.16s	
214375	s	
21436587E90	2s.3.12.15s	
4123658709E	2.6.15s.19s	
415263	-	
413265	s	
3142	- s	
315462	-	A
312465	s	
2134	- s	
215364	-	
214365	s	
21436578	b	
21436578E90	A	
3124567809E	c	
31245678E90	A	
3124567890E	z	

a = 3.4.7.9s.10.12.13.17.19.21.22
b = 1.2.10s.13s.15s
c = 1.3s.8s.9.10.12.13.16s.18.21s.22
z = 12.14.15.16.17.18.19 (20)

130. 5002 Thomas Hooley

2314567890E	6	7	9	16	19	
312465			a			
31246587			b			
31527486			c			
3152748609E			d			
314275	s					
215374	-	-	s	s		
214375	s					
21436587E90			e			
4123658709E			f			
415263					-	
413265					s	
3142	-				s	
315462					-	A
312465					s	
2134	-				s	
215364					-	
214365					s	
21436578			g			
21436578E90			A			
3124567809E			h			
31245678E90			A			
3124567890E			z			

a = 3.4.7.9s.10.12.13.17.19.21.22
b = 2s.13s.15s
c = 3s.12.19
d = 1.2.15s
e = 2s.3.12.15s
f = 2.6.15s.19s
g = 1.2.10s.13s.15s
h = 1.3s.8s.9.10.12.13.16s.18.21s.22
z = 12.14.15.16.17.18.19 (20)

131. 5005 Thomas Hooley

1234567890E	1	9	16	18	19	
42135678E90	-	s	s	-		
2413			s			
3421		s	s	-		
4321			s			
1342		s	s	-		
3142			s			
2134		s	s	-		
1234			s			
1234657890E			a			
41536278E90	-	s	s		-	
412365					s	
345261		s	s		-	
341265					s	
235164		s	s		-	A
234165					s	
125463		s	s		-	
123465					s	
1234658709E			b			
2341			A			
43216578E90			c			
3214			A			
3214658709E			b			
2143			A			

a = 1.2.4s.5.7.8.9.10.20 (20)
b = 1.13s.15s.22
c = 2.6.13s.15s.19s
Start from rounds as the last row of a quick six

132. 5005 Thomas Hooley

1234567890E	1	6	10	19		
214365			a			
41236578E90	-	-		s		
415263				-		
413265				s		
3142		-		s		
315462				-	A	B
312465				s		
2134		-		s		
215364				-		
214365				s		
4123658709E			b			
215364			A			
2143658790E			s	s		
21436587E90			B			
21436587E09	-		s			
214365879E0			B			
2143658709E	-					

a = 5.7.8.10.11.13s.14.15 (20)
b = 1.6.13s.15s.19s.22
Start from rounds as the last row of a quick six

133. 5006 Thomas Hooley

1234567890E	6	19	
5124638709E		a	
213465	-	3	A
315462	-	3	
5143	-	2	
412365	-	3	
41236578E90		b	
2134	-	2	B
3124	-	s	
315264		-	
5142637890E		c	
5142638709E		d	
214365		A	
21436578E90		b	
315462		B	
312654		e	
312456	s	-	
3124567890E		z	

a = 1s.3.4.5.10s.16.17.18.20.23.24.25 (25)
b = 1.13s.15s.22
c = 6.12.14.15.16.17.18.19 (20)
d = 10s.13s.15s.22s
e = 5.14s.19
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a slow six

134. 5007 Thomas Hooley

2314567890E	1	6	19	
214365		a		
41236578E90	-	-	s	
415263			-	|
413265			s	|
3142		-	s	|
315462			-	| A
312465			s	|
2134		-	s	|
215364			-	|
214365			s	|
4123658709E		b		
2143		A		
2143658790E	s			
41236587E90	-	-	s	
2143		A		
412365879E0	s	-	s	
2143		A		
2143658709E	-			

a = 5.7.8.10.11.13s.15.16 (20)
b = 1.6.13s.15s.19s.22

135. 5007 Thomas Hooley

2314567890E	1	6	19	
214365		a		
41326578E90	-	-	2	
3124		-	2	
2143		-	2	
4123658709E		b		
2134		-	2	
3142		-	2	
4132		-	s	A
3124		-	2	
2143		-	2	
2143658790E	s			
41236587E90	-	-	s	
2143		A		
41236587E0	s	-	s	
2143		A		
2143658709E	-			

a = 5.7.8.10.11.13s.15.16 (20)
b = 1.6.13s.15s.19s.22

136. 5007 Thomas Hooley

2314567890E	1	6	9	18	19	
21635478E90			a			
214356		s				
4132		-			2	
3124		-			2	A
216453		-				
213456789E0	s	s				
216354			A			
2143657890E			b			
4123		-			s	
4132			s	-		
3142		-			s	B
3124			s	-		
2134		-			s	
215463879E0			c			
213465		s				
215364			A			
21436587E90	s	s				
215463			A			
2134658709E			d			
2143			B			

a = 1.6.7.8.10.11.12.13.15s.16.17 (20)
b = 1.5s.6.10s.14s
c = 5.6.13s.14.15.22
d = 2.6s.15s

137. 5009 Thomas Hooley

2314567890E	6	7	18		
31625478E90		a			
321456	s		-		
2431		s	-		
416253	-	-	s	A	
421356	s		-		B
2341		s	-		
326154	-	-			
134256		A			
614253		2			
3152648709E		b			
234165		A			
32516478E90		c			
234165		B			
3251648709E		c			
134265		A			

a = 1s.2.6.8.9.10.12s.17s.18.20s (20)
b = 2.5.7.13s.15.16
c = 2.6.7.13s.15s

138. 5019 Thomas Hooley

2314567890E	6	19	
21345678E90		a	
3142	-	2	
4132	-	s	
3124	-	2	
2143	-	2	
4123	-	s	
216354	-		
215364	5.14s		
512463	-	-	A
314265	2	2	
4123	-	2	
2153648709E		b	
412365		A	
41536278E90		c	
214365		A	
4153628709E		b	
214365		A	

a = 1.4s.17
b = 2.6.13s.15s
c = 2.6s.13s.15s

139. 5019 Thomas Hooley

2314567890E	1	6	19
21345678E90		a	
3142		-	2
4123		-	2
216354		-	
214365		b	
4132		-	2
3124		-	2
2134		-	s
3142		-	2
4123		-	2
4123658709E		c	
2143		A	
2143658790E	s		
41236587E90	-	-	s
2143		A	
214365879E0	s		
2143658709E	-		

A

a = 1.4s.17
b = 5.14s.19s
c = 2.13s.15s

140. 5033 Thomas Hooley

3124567890E	1	6	19	
2153648709E		a		
5123		-	s	
514362			s	
213465		2	2	
3142		-	2	
3142657890E		b		
41326578E90	-	-	s	
415263			s	A
312564		2	2	
2153		-	2	
2153647890E		z		
213465			2	
312564		-	-	
312465		s	-	
2143		-	2	
31526478E90		A		
315264879E0		b		
2143658709E		A		

a = 1.9s.10.13.14.17s.18.20.24.27 (30)
b = 12s.13.14.16s.17.18.19 (20)
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the second row of a quick six

141. 5055 Thomas Hooley

2314567890E		1	6	19
31426578E90			a	
4132			-	s
415263				s
312564			2	2
2153			-	2
2153648709E			b	
5123			-	s
514362				s
213465			2	2
3142			-	2
3152647890E			c	
312465				2
312564			s	-
213465			-	-
2143			s	2
41236578E90		-	-	s
2143658709E			A	

A

a = 3.9s.11s.12.13.16.20.26.27 (30)
b = 2.6s.13s.15s.19s
c = 2.6s.12.14.16.17.18.19 (20)

142. 5062 Thomas Hooley
(arr D E House)

2314567890E	6 19	
2143657809E	a	
41236578E90	b	A
415263	-	
413265	s	
3142	- s	
315462	-	
312465	s	
2134	- s	
215364	-	
214365	s	
3124657890E	c	
31246587	2s.13s.15s	
31527486	3s.12.19	
3152748609E	1.2.15s	
314275	s	
215374	6.7.9s.16s	
214375	s	
21436587E90	2s.3.12.15s	
2143658709E	A	
31245678	d	
31245678E90	A	
3124567890E	z	

a = 1s.5.7.8.10.11.13s.15.16 (20)
b = 2.6.15s.19s
c = 1s.3s.8.9.12.13.16s.18.21s.22
d = 1.2.4s.13.16s.17.19.22.26.28.31.33 (34)
z = 12.14.15.16.17.18.19 (20)

143. 5137 Thomas Hooley

1234567890E	1	9	16	18	19	
42135678E90	-	s	s	-		
2413			s			
3421		s	s	-		
4321			s			
1342		s	s	-		A
3142			s			
2134		s	s	-		
1234			s			
1234657890E			a			
42136578E90	-	s	s	-		
1234			A			
1234658709E			b			
415362		s	s		-	
412365					s	
345261		s	s		-	B
341265					s	
235164		s	s		-	
234165					s	
21346587E90			c			
3142			A			
3214658709E			c			
2143			B			

a = 1.2.4s.5.7.9.10.11 (20)
b = 1.13s.15s.22
c = 2.15s.18
Start from rounds as the last row of a quick six

144. 5141 Thomas Hooley

2314567890E	1	9	16	18	19	
43215678E90	-	s	s	-		
3421			s			A
1432		s	s	-		
4132			s			
2143		s	s	-		
1243			s			
3214		s	s	-		
2314			s			
2314657890E			a			
43216578E90	-	s	s	-		
2314			A			
3124658709E			b			
435261		s	s		-	B
431265					s	
245163		s	s		-	
243165					s	
125364		s	s		-	
124365					s	
13246587E90			c			
2341			A			
2134658709E			c			
1342			B			

a = 1.2.4s.5.7.8.9.10.20 (20)
b = 1.6.13s.15.16.19s.22
c = 2.5s.14.15.18

145. 5151 Thomas Hooley

2314567890E	1	6	19
21345678E90		a	
3142		-	2
4123		-	2
2143		-	s
216354			s
214365		b	
4132		-	2
3124		-	2
2134		-	s
3142		-	2
4123		-	2
4123658709E		c	
2143		A	
2143658790E	s		
41236587E90	-	-	s
2143		A	
214365879E0	s		
2143658709E	-		

A

a = 1.4s.17
b = 5.14s.19s
c = 2.13s.15s

7813. 5007 David E House

2314567890E	1	6	9	16	18
43215678E90	-		s	s	-
3142				s	-
1234				s	-
1234657890E	1.2.4s.5.7.8.9.10.20 (20)				
235461	1.6.7s.12.14.15.16.17.18.19 (20)				
24136578E90	-	s			s
4153627890E			x		
43216578E90	-	s			s
3251647890E			x		
31426578E90	-	s			s
1452637890E			x		
12346578E90	-	s			s
531246E9780	1s.5.10.11.13.14.15.16.19.21.22.24.26.29.31 (32)				
3251748609E	1.2.3.10s.12s.16s.18.21				
31526487	3.4.12.17.18				
123465	7.18.19				
2413				s	-
4321				s	-
3142				s	-
42315678E90	2.5.8s.9.10.13.14.16.18s.20s (20)				
2143658709E			A		

x = 6.7s.12.14.15.16.17.18.19 (20)

A

7812. 5007 David E House

2314567890E 16 18

43215678E90 1.9s.16s.18

3142	s -	
1234	s -	
21345679E80	7.8.21	
213456E9780	3.12s	
12436578E90	3.7.8.9.10.12s.18.21	
2314	s -	
3421	s -	
34126587	2s.9s.13s.15s.18	
4231	s -	A
2143	s -	
21537486	3.4.12.17s.19s	
1342758609E	2.7s.15s.18.19	
32516487	3.4.12.16.17.18.19	
31527486	3.4.12.17.18	
12346587	3.4.7.12.17s.18.19	
2413	3.4.12s.16.17.18	
4321	3.4.12s.16.17.18	
3142	3.4.12s.16.17.18	

42315678E90 2.5.8s.9.10.13.14.16.18s.20s (20)
2143658709E A

4895. 5007 David E House

2314567890E	6	7	9	18	19	
24135678E90	1s.	2.	9s.	15s		
4321		s		-		
3142		s		-		
1324		s	s	-		
3412		s		-		A
4231		s		-		
2143		s		-		
1234		s	s	-		
12345679E80	8s.	21				
123456E9780	3.	12s				
4123658709E	1.	2.	3.	7.	8.	9. 10. 12s. 16s. 18. 21
215364	-				3	
5132	-				2	B
314265	-				3	
1342657890E	3.	7s.	13.	14.	16.	17. 18. 19 (20)
1234	1s.	10s.	18			
24136578E90	1.	7s.	18			
1234			A			
4132658709E	1.	9s.	13s.	15.	16.	22
2143			B			

146. 5007 David E House

2314567890E	1	7	9	10	18	
24135678E90	1s.	2.	9s.	15s		
4321		s			-	|
3142		s			-	|
1324		s	s		-	|
3412		s			-	|A
4231		s			-	|
2143		s			-	|
1234		s	s		-	|
312456E9780		a				
13426587E90		b				
1324658709E	2.9s.	15s.	18			
3412		s			-	
4231		s			-	
2143658790E		s		s	-	
1234658709E		s	-	-	-	
2413		s			-	
4321		s			-	
3241657890E	6.7s.	10s.	13s.	15s.	19s.	22s
3124		s		s	-	
14326578E90	-	s			-	
3124			A			
213546E9780			c			
12537486E90			d			
2153748609E	2.	15.	16			
21536487			x			
31427586			y			
31426587			x			
31527486			z			
31526487			x			
21437586			y			
21436587			x			

a = 5.6.11s.13s.15.19.21.22.24.26.29.31 (32)
b = 1s.3.7.8.9.10.12s.18.21
c = 1s.5.7.10.11.13.14.15.16.19.21.22.24.26.29.31 (32)
d = 1s.3.7s.9.10.12s.18.21
x = 3.4.12.17s
y = 3.4.9s.12.16.17.18.19
z = 3.4.12.17s.19s

147. 5009 David E House

```
2314567890E  6  7 18 19
-----------------------
23415768E90  1.s4.s6.s9.s17.18
3241            s
14325678     s4.s6.8.9.s16.17.s21
1324                 2
1423                 s
1234                 2
21345679E80  7.8.21
1234         1.2.s10.15.16
213456E9780  3.s7.s12
1234         1.2.s10.15.16
4536128709E  1.2.3.s8.9.s12.s14.s16.21
532461       5.7.8.s10.11.13.14.15.16 (20)
431265       3.4.s9.s12.s16.17.18.19
435261                 s
4253                 s
421365       s
245163       3.4.s12.16.17.19
243165                 s
2134                 s
215463       s
12346578E90  2.s7.s13.s15.s19
1432                 s
1324                 2
1423                 s
1342                 -
3154628709E  2.s7.s13.s15.19
312465                 s
3421                 s
345162       s
4321658790E  6.7.s10
21436587E90  1.6.18.19
1243658709E  2.6.7.s9.s15.18.19
125364                 s
1352                 s
134265       s
```

7814. 5009 David E House

3124567890E	7 18
2314567809E	1s.4.6.7.8.11.12.14s.15.17.19.22s.23.25.28 (28)
24135678E90	2.15s.18s
4321	s -
3142	s -
1234	s -
312456E9780	5.6.11s.13s.15.19.21.22.24.26.29.31 (32)
1324658709E	1.2.3.7.8.10s.12s.21
3412	s -
4231	s -
21436587E90	2.7s.15s.18
2341657890E	9s.12.14.16s.17.18.19 (20)
2134	1s.10s.18
312546E9780	1.5.7.11s.13.14.15.16.19.21.22.24.26.29.31 (32)
31527486E90	1s.3.9.10.12s.18.21
3152748609E	2.6s.15s.19s
31526487	3.4.12.17s
31427586	3.4.12.17s.19s
31426587	3.4.12.17s
32145678	3s.8s.10s.12.13.15s.18.21.22
21436587	A

Start from rounds as the second row of a quick six

148. 5009 David E House

2314567890E	1	7	9	18	19	
34215678E90	-	s		-		
4132		s		-		
1243		s		-		
2134		s	s	-		
1423		s		-		A
4312		s		-		
3241		s		-		
2314		s	s	-		
213546E9780			a			
2153648709E			b			
132465		-		-	-	
145263				s	-	
421365		-		-	-	
435162				s	-	B
314265		-		-	-	
325461				s	-	
243165		-		-	-	
21436578E90	2.1	3s.	1	5s.	18	
4231			A			
413256E9780			c			
21436587E90			d			
1324		s		-		
3412		s		-		
1254638709E	2.6.		1	5s.	18s	
134265			B			

a = 1s.6.10.11.13s.14.15.19.21.22.24.26.29.31 (32)
b = 1.2.3.8s.9.10.12s.18.21
c = 1s.6.7s.10.11.13.15s.17s.19.21.22.24.26.29.31 (32)
d = 1s.3.8s.9.10.12s.16s.18.21

149. 5016 David E House

2314567890E	1	6	7	9	16	18	19	
32415678E90	1s.	2.	7s.	9s.	15s.	18		
2134			s			-		
1423			s			-		A
4312			s			-		
231456E9780				a				
32415768E90				b				
34215678	4s.	6s.	17					
2314				A				
5463217890E				c				
2354618709E				d				
325164		-	-				-	
123465		s		s	s	-		B
3142				A				
3142657890E				e				
1234			s			-		
21436578E90	-		s	s		-		
1243			s					
2134			s	s		-		
1234			s					
531246E9780				f				
23517486E90				g				
3241758609E	2.	15.	16.	19s				
32417586E90	2.	15s						
32416587	3s.	12						
3254618709E	2.	15s.	19					
214365				B				
13579E24680				h				
1342658790E				j				
231456				k				
23145678				l				

a = 3.8.9.12s.16s.18s.21
b = 3.4s.6.7.8.9.12s.17.18s.21
c = 5.6.9s.12.14.15.16.17.18.19 (20)
d = 6.9.10.13.14.15s.19s.22s
e = 3.13.14.16.17.18.19 (20)
f = 1s.5.10.11.13s.14.15.16s.19.21.22.24.26.29.31 (32)
g = 1s.3.9.10.12s.16s.18.21
h = 1.15.17s.23s.24 (24)
j = 1.2.4.5.7.9s.12.14 (18)
k = 5.7.8.10.11.13.15s (20)
l = 1s.3.13.14.16.17.18.19 (20)

7816. 5021 David E House

2314567890E	1	7	9	18	19	
34215678E90	-	s		-		
4132		s		-		A
1243		s		-		
2134		s	s	-		
1423		s		-		
4312		s		-		
3241		s		-		
2314		s	s	-		

2314567E098	1.8s.13s.21
2314568709E	2.3.12.13
231456789E0	10s.13s.15s.22
2314567809E	-
23145679E80	1.22
231456798E0	1.2.15s
231456E9780	1s.3.12s
2431658709E	1.2.3.8s.10s.12s.18.21

215364			s	-	
132465		-	-	-	
145263			s	-	B
421365		-	-	-	
435162			s	-	
314265		-	-	-	

21346578E90	2.9s.13s.15.16.18
3241	A
1254638709E	2.6.7s.9s.13s.15.16
241365	- - -
1342	B

7815. 5021 David E House

```
2314567890E  6  7  9 10 18
_____________________________
231456789E0  1.3.5.6.9.10.12.15s.17.18.21.23.24.25.28.30.33.35 (36)
_____________________________
34215678E90     s     s  -
4132            s        -
1243            s        -
2134            s  s     -
213456E9780  1.2s.4s.6.7s.9.11.14s.16.19.21.22.24.26.29.31 (32)
12436578E90  3.7.8.9.10.12s.18.21
125364       19s
231465       -  -        -
3421            s        -                                          A
1452638709E  2.9s.13s.15.16.18.19s
421365             a
215364       -  s
132465             a
325461       -  s
243165             a
435162       -  s
314265             a
_____________________________
213456789E0  5s.6.7.9.10.12.14.15.17.24.26.27s.31.32 (32)
1342658709E        A
_____________________________
```

a = 3.4.7.12s.17s.18.19

a can be called 7.18.19

7819. 5025 David E House

```
3124567890E  1  7  9 10 18
_____________________________
14235678E90  1s.2s.4.5.7.9s.11s.12.14s.18s.20.22.23.24.25 (25)
_____________________________
4312            s         - |
3241            s         - |
2314            s  s      - |
3421            s         - |A
4132            s         - |
1243            s         - |
2134            s  s      - |
_____________________________
312456E9780  6.7.11s.13.14.15.19.21.22.24.26.29.31 (32)
13426587E90  1s.3.7.8.9.10.12s.18.21
1324658709E  2.9s.15s.18
3412            s         -
4231            s         -
2143658790E     s      s  -
1234658709E     s  -   -  -
2413            s         -
4321            s         -
3241657890E  6.7s.10s.13s.15s.19s.22s
3124            s         s  -
14326578E90  -  s            -
3124               A
213546E9780  1s.5.7.10.11.13.14.15.16.19.21.22.24.26.29.31 (32)
12537486E90  1s.3.7s.9.10.12s.18.21
2153748609E  2.7s.15s
21536487     3.4.12.17s
31427586     3.4.9s.12.16.17.18.19
31426587     3.4.12.17s
31527486     3.4.12.17s.19s
31526487     3.4.12.17s
21437586     3.4.9s.12.16.17.18.19
21436587     3.4.12.17s
_____________________________
Start from rounds as the fourth row of a slow six
```

7818. 5025 David E House

```
3124567890E  6 19
─────────────────
31246578E90  1.2.4.5.7s.9s.11.12.14s.16.18.20.22.23.24.25 (25)
2143         -  2
4132         -  2
4123         s  2
2134         -  2
3142         -  2
531246E9780  5.11s.13s.15.19.21.22.24.26.29.31 (32)
3125648709E  1.2.3.4s.7.8.9.10.12s.17.21
314265          -
─────────────────
415263       -  3 │
5124         -  2 │A
213465       -  3 │
─────────────────
31246587E90  2.6.7s.15.16.19s
2143         -  2
4132         -  2
432156E9780  6.13.14.16.17.18.19.21.22.24.26.29.31 (32)
4132658709E  1.2.3.4s.7.8.10s.12s.16.17.18.21
2143           A
─────────────────
Start from rounds as the fourth row of a slow six
```

7817. 5025 David E House

```
3124567890E  6  9 18 19
_____________________________
31246578E90  1s.2s.4.5.7s.9s.11.12.14s.16.18.20.22.23.24.25 (25)
_____________________________
2134         -        s |
2143            s  -    |
4123         -        s |A
4132            s  -    |
3142         -        s |
_____________________________
531246E9780  5.11s.13s.15.19.21.22.24.26.29.31 (32)
3125648709E  1.2.3.4s.7.8.9.10.12s.17.21
314265               -
_____________________________
415263       -       3 |
5124         -       2 |B
213465       -       3 |
_____________________________
12345678     3s.7.8.9.10.12.13.15s.18s.21.22
21345678E90  2.15.16
2143              A
21436587     3s.7.8.10s.12.13.15.16.21.22
4123         -       s
4132            s  -
432156E9780  6.13.14.16.17.18.19.21.22.24.26.29.31 (32)
4132658709E  1.2.3.4s.7.8.10s.12s.16.17.18.21
2143              B
_____________________________
```

Start from rounds as the fourth row of a slow six

7820. 5028 David E House

2314567890E	6	16	18	19	
32415678E90			a		
2134			s	-	A
1423			s	-	
4312			s	-	
123456E9780	5.	6.	11s.	13.	15. 19. 21. 22. 24. 26. 29. 31 (32)
1243658709E			c		
125364				s	B
1352			s		
134265		s			
315462			d		b
3451			B		
3124657890E			e		
1342			f		
2143			g		
12436578E90			ħ		
1342			B		
12436587			j		
1342			B		
4312658709E			k		
4213			B		
245163			l		
2154			B		
2134657890E			m		
34215678E90			n		
2314			A		
2314567890E			z		

a = 1s.2.7s.9s.15s.18
c = 1.2.3.8s.9.10.12s.18.21
d = 1s.7s.10s.19
e = 3.6s.9s.13.14.16.17.18.19 (20)
f = 1s.7s.9.10.18
g = 1s.9.10.16s
ħ = 1.13s.16s.22s
j = 1.9.10.13s.15s.22
k = 2.6.9s.15s.18.19
l = 3.4.12s.16.17.19
m = 3.6s.13.14.16.17.18.19 (20)
n = 1.5.7.8.9s.10.11.13.15.16 (20)
z = 12.14.15.16.17.18.19 (20)

150. 5031 David E House

2314567890E	6	7	9	18	19	
12536487E90			a			
124365					s	
2134		s	s	-		
1234		s				A
2143		s	s	-		
215364	s					
1243657890E			b			
2143			c			
2314			d			
3251648709E			e			
213465			x			
245361				s	-	
432165			x			
415263				s	-	B
124365			x			
135462				s	-	
341265			x			
32417586			f			
31527486E90			g			
12536478			h			
2153			A			
3241658790E			i			
531246E9780			j			
32415678E90			k			
3124				-		
23546187			l			
2354618709E			m			
214365			B			

a = 1.5.8s.9.10.13.14.17s.18 (20)
b = 6.7.12.14.16s.17.18.19 (20)
c = 1s.7s.12s.13.14.15.16.17.18.19 (20)
d = 1s.7s.10s.16s.18
e = 10s.13s.15.16.19.22s
f = 3.4.12.17s.18
g = 2.15s.18.19
h = 3s.12.13s.15.16.18s.22s
i = 6.7.9.10.13s.15.16.18s.22
j = 2.5.13s.16.18s.19.22.24.26.29.31 (32)
k = 3.8s.12s.14s.16s.18.21
l = 5.8s.10s.13.14.17s.18 (20)
m = 2.15s
x = 3.4.7.12s.17s.18.19

151. 5031 David E House

```
2314567890E  6  7 16 18 19
-----------------------------
546321       1.5.6.9s.12.14.15.16.17.18.19 (20)
23415678E90  1.6s.14s.18
2134            s  s  -
21345679E80  8s.21
1234         1.2.10s.15.16
2134567E098  1.7.8.21
1234         2.3.12s.15.16
1234567809E  13s
14235678E90  2.15s.18
4312            s     -
3241            s     -
2314         7s.9s.18
1543E276980  1s.6.10.11.13s.14.15.19 (20)
4352618709E  1.2.3.6.12.13s.18
125364          -  s  s
123465       6s.9s.18
2413            s     -
4321            s     -
3142            s     -
1342657890E  3.7s.13.14.16.17.18.19 (20)
1234         1s.10s.18
32546178E90  1.6
324165       6s.9s.18
3124                  -
7856341290E  4.5s.9.10.11s.13s.15s.18.19s.22
43651287E90  1s.5.6.7.9.11.12 (12)
134265       6.14s.19
12537486     3.4.12.17.18.19s
21436587     3.4.12.16.17.19s
2143657E098  1.8s.13s.15s.21
3152048E697  2.3.6.7.9s.16s
1352647890E  4.5.6.7s.9s.14s (20)
3152E476980  1.5.9s.11s.13.15.19 (20)
4152638709E  1.2.3.7.12.13s.16s
135264       7.9s.18s
132465       6s.9s.18
3412            s     -
4231            s     -
2143            s     -
```

7821. 5031 David E House

2314567890E	1	6	7	9	10	18	19	
32415678E90				a				
2134			s			-		
1423			s			-		
4312			s			-		
3421			s	s		-		
4132			s			-		
1243			s			-		
2314			s			-		
23145679E80	8s	.21						
231456E9780	3	.12s						
4123658709E				b				
215364		-					3	A
5132		-					2	A
314265		-					3	A
13579E24680				c				
13426587E90				d				
3142658790E	7s	.10s	.13s	.22				
13426578				e				
1234	s				s	-		
21436578E90	-		s	s		-		
1324			s			-		
3412			s			-		
4321			s	s		-		
3142			s			-		
4132658709E	2	.6	.13s	.15s	.19s			
2143				A				

a = 1s.3s.4.6.7.8.11s.12.15.16.17.19s.20.23.25.28 (28)
b = 1.2.3.4s.8s.9.10.12s.16s.17.21
c = 1.9.10.15.17s.18.24 (24)
d = 1.2.4.5s.7s.9s.12.14 (18)
e = 1s.3.7s.13.14.16.17.18.19 (20)

152. 5031 David E House

```
2314567890E 16 18
──────────────────
43215678E90  1.4.s6.8.11.12.s14.15.17.19.23.25.28 (28)
3142         s  -
1234         s  -
123456E9780  6.s7.s9.s11.s13.14.15.16.19.21.22.24.26.29.31 (32)
23415768E90  3.s4.6.7.8.9.s12.17.21
3241         s
34216578     4.s6.17
34126587     s2.s9.s13.s15.18
4231         s  -
2143         s  -
21537486     3.4.12.s17.s19
──────────────────
1342758609E  2.s7.s15.18.19     │
32516487     3.4.12.16.17.18.19 │
31527486     3.4.12.17.18       │
12346587     3.4.7.12.s17.18.19 │A
2413         s  -               │
4321         s  -               │
3142         s  -               │
──────────────────
42315678E90  2.5.s8.9.10.13.14.16.s18.s20 (20)
2143         s  -
1324         s  -
213546E9780  s5.6.7.s11.s13.15.16.19.21.22.24.26.29.31 (32)
12536478E90  3.7.8.9.10.s12.18.21
134265       s9.s19
3214         s  -
2431         s  -
24136587     s2.s9.s13.s15.18
4321         s  -
3142         s  -
31527486     3.4.12.s17.s19
2143658709E    A
```

153. 5035 David E House

1234567890E	1	6	10	18	19
32415768E90			a		
2341576890E			b		
14235678E90			c		
1342				-	
1243				s	
1432				2	
1234				s	
123456E9780			d		
4123658709E			e		
215364		-			3
5132		-			2
314265		-			3
3241657890E			f		
3124	s		s	-	
31246578E90			g		
2134		-			s
215364					-
214365					s
4123		-			s
415263					-
413265					s
3142		-			s
3241658790E			h		
4132658709E		-	s	-	-
315264		-			3
5123		-			2
214365		-			3

a = s1.s4.5.7.8.s12.13.14.20 (21)
b = s7.12.14.15.16.17.18.19 (20)
c = 1.s4.s6.8.9.16.s17.s21
d = 6.s7.s11.13.14.15.19.21.22.24.26.29.31 (32)
e = 1.2.3.7.8.9.10.s12.s16.18.21
f = 2.s9.12.14.16.17.18.19 (20)
g = s1.2.s15
h = s2.s9.12.14.16.17.18.19 (20)
Start from rounds as the last row of a slow six

7822. 5041 David E House

```
 1234567890E  6  7  9 18 19
 ____________________________
 12436587E90  1s.3.6.12.16s.23s.26.28.31.33 (34)
 2134            s  s  -
 1234            s
 2143            s  s  -
 215364       s
 1243658790E  6.7.12.14.15.16.17.18.19 (20)
 2314            s     -
 3241            s  s  -
 24315678E90  2.5.7.8.10s.13.14.16.18s.20 (20)
 4123            s     -
 1342            s     -
 3214            s     -
 321456E9780  3.8s.12s.21
 3241758609E  1.2.3.9.10.12s.18.21
 12346587     3.4.9s.12.16.17.18
 2413            s     -
 4321         3.4.12s.16.17.18
 3142            s     -
 21436578     2s.7s.9s.13s.15.16
 12536478E90  2.5s.14s.15.16.19s
 124365                  s
 2134            s  s  -
 1234            s
 2143            s  s  -
 215364       s
 1243657890E  6.7.12.14.15.16.17.18.19 (20)
 2314            s     -
 3241            s  s  -
 31245678E90  2.5.7.8.9.10.16.18s.20 (20)
 1432            s     -
 4213            s     -
 2341            s     -
 231456E9780  3.8.9.12s.18.21
 2341758609E  1.2.3.9.10.12s.18.21
 13246587     3.4.9s.12.16.17.18
 3412            s     -
 4231         3.4.12s.16.17.18
 2143            s     -
 ____________________________
```

Start from rounds as the last row of a quick six

154. 5043 David E House

2314567890E	6	7	9	16	18	19	
12536487E90				a			
124365						s	
2134		s	s		-		
1234		s					
2143		s	s		-		
215364	s						A
1243658790E				b			
2314		s			-		
3241		s	s		-		
24315678E90				c			
2143					-		
2341					s		
2413					2		
2314					s		
1543E276980				d			
4352618709E				e			
125364		-		s	s		
123465	s		s		-		
2413		s			-		B
4321		s			-		
3142		s			-		
1253647890E				f			
12436578E90	1.19s						
3241657890E				A			
42516387				g			
4253618709E				h			
214365				B			

a = 1.3.s6.12.s15.s20.s23.26.28.31.33 (34)
b = 6.7.12.14.15.16.17.18.19 (20)
c = 2.5.7.8.10s.13.14.16.18s.20 (20)
d = 1s.6.10.11.13s.14.15.19 (20)
e = 1.2.3.6.12.13s.18
f = 10s.13s.15.16.18.19.22s
g = 6.13s.15s.22s
h = 6s.10s.13s.19.22s

155. 5043 David E House

2314567890E	6	19	
31425678E90		a	
4132	-	s	A
416352		-	
412356		s	
2143	-	s	
216453		-	
213456		s	
3124	-	s	
312456E9780		b	
4123658709E		c	
215364	-	3	B
5132	-	2	
314265	-	3	
3241657890E		d	
3124		e	
31246578E90		f	
3142		A	
3241658790E		g	
4132658709E		h	
2143		B	

a = 3.7.9s.11.12.13.16.20.22s.24s.26.27 (30)
b = 3.8s.12s.21
c = 1.2.3.7.8.9.10.12s.16s.21
d = 2.9s.12.14.16.17.18.19 (20)
e = 1s.10s.18
f = 1s.2.15s
g = 2s.9s.12.14.16.17.18.19 (20)
h = 6.10s.18.19

8185. 5043 David E House

```
2314567890E  6  7  9 18 19
-------------------------------------------
12536487E90  1.5.8s.9.10.13.14.17s.18 (20)
-------------------------------------------
124365                    s |
2134           s  s  -      |
1234           s            |A
2143           s  s  -      |
215364      s               |
-------------------------------------------
1243657890E  6.7.10s.13s.15s.22
2143         1s.7s.12s.13.14.15.16.17.18.19 (20)
2314         1s.7s.10s.16s.18
3251648709E  10s.13s.15.16.19.22s
-------------------------------------------
213465         -     -  -  |
245361               s  -  |
432165         -     -  -  |
415263               s  -  |B
124365         -     -  -  |
135462               s  -  |
341265         -     -  -  |
-------------------------------------------
32417586     3.4.12.17s.18
31527486E90  2.15s.18.19
12536478     3s.12.13s.15.16.18s.22s
2153               A
3241658790E  6.7.9.10.13s.15.16.18s.22
531246E9780  2.5.13s.16.18s.19.22.24.26.29.31 (32)
32415678E90  3.8s.12s.14s.16s.18.21
3124               -
23546187     5.8s.10s.13.14.17s.18 (20)
2354618709E  2.15s
214365             B
```

8186. 5050 David E House

1342658709E	1	6	7	9	18	19	
1234576890E				a			
13426578E90				b			
3214			s		-		A
2431			s		-		
4213			s	s	-		
2341			s		-		
3124			s		-		
1432			s		-		
4123			s	s	-		
4123658790E				c			
2153648709	s	-				3	B
5132		-				2	
314265		-				3	
314265879E0				d			
3412				A			
34126587E90				e			
3124					2		
3142				s	-		
4132658790E				f			
2143658709E				B			

a = 3.6.9s.12s.15.16.23.26.28.31.33 (34)
b = 1.4.6s.9s.17
c = 12.14.16s.17.18.19 (20)
d = 2s.12.14s.16.17.18.19 (20)
e = 2.12.14s.16.17.18.19 (20)
f = 6.9.10.13s.18.19.22
Start from rounds as the third row of a slow six

8188. 5055 David E House

```
2314567890E 16 18
──────────────────
21435678E90  1s.4.6s.7.8.9.11.12.13.14.16.17.20s.22.26s.27.30 (30)
──────────────────
1324         s  -                                              |
3412         s  -                                              |
4231         s  -                                              |
213456E9780  3.7.8.12s.18s.21                                  |
12436578E90  3.7.8.9.10.12s.18.21                              |
2314         s  -                                              |
3421         s  -                                              |
34126587     2s.9s.13s.15s.18                                  |
4231         s  -                                              |A
2143         s  -                                              |
21537486     3.4.12.17s.19s                                    |
1342758609E  2.7s.15s.18.19                                    |
32516487     3.4.12.16.17.18.19                                |
31527486     3.4.12.17.18                                      |
12346587     3.4.7.12.17s.18.19                                |
2413         3.4.12s.16.17.18                                  |
4321         3.4.12s.16.17.18                                  |
3142         3.4.12s.16.17.18                                  |
──────────────────
31425678E90  2.5.8s.10s.13s.16.18s.20s (20)
2143658709E    A
```

4897. 5064 David E House

```
2314567890E  1  6  7  9 16 18 19
-----------------------------------
32415678E90  s1.2.s7.s9.s15.18
2134              s        -
1423              s        -
4312              s        -
2314569E780  1.s3.4.5.6.7.10.s13.14.15.17.18 (18)
231456E9     s1.2.3.4.5.s13.s16.18.19.20 (20)
32415768E90  3.s4.6.7.8.9.s12.17.s18.21
34215678     s4.s6.17
4132              s        -
1243              s        -
2314              s        -
5463217890E  5.6.s9.12.14.15.16.17.18.19 (20)
2354618709E  6.9.10.13.14.s15.s19.s22
325164           -  -           -
123465           s     s  s  -
2413              s        -
4321              s        -
3142              s        -
1342657890E  3.s7.13.14.16.17.18.19 (20)
1234                       -
21436578E90  -     s  s     -
1243              s
2134              s  s     -
1234              s
531246E9780  s1.3.7.8.9.s16.s18.19.21.23.24 (24)
23517486E90  s1.3.9.10.s12.s16.18.21
3241758609E  2.15.16.s19
32417586E90  2.s15
32416587     s3.12
3254618709E  2.s15.19
235164           -  -           -
132465           s     s  s  -
3412              s        -
4231              s        -
2143              s        -
13579E24680  1.15.s17.s23.24 (24)
1342658790E  1.2.4.5.7.s9.12.14 (18)
231456       5.7.8.10.11.13.s15 (20)
23145678     s1.3.13.14.16.17.18.19 (20)
```

8189. 5067 David E House

2314567890E	6	7	9	16	18	19
41236578E90				a		
215364	-					
213465	s		s		-	
3142	-					2
4132	-					s
315264	-					
312465	s		s		-	
2143	-					2
531246E9780				b		
23517486E90				c		
21436587				d		
1234658709E				e		
2413					s	-
4321					s	-
1324			s	s	s	
3412					s	-
4231					s	-
214356				f		
13245678E90				g		
3412					s	-
4231					s	-
2413			s	s		-
4321					s	-
3142					s	-
1234					s	-
2143			s	s		-
413256E9780				h		
2143758609E				i		
21536487				j		
21537486				k		
31426587				l		
31427586				k		
31526487				j		
31527486				k		
21436587				l		

a = 1s.2.3.6s.9s.11.15.17s.18.31.32.33 (34)
b = 5.11s.13.15.19.21.22.24.26.29.31 (32)
c = 1s.3.9.10.12s.16s.18.21
d = 3.4.12.17s.18.19
e = 2.7s.9s.15s.18
f = 5.7.8.10.11.13.14.15 (20)
g = 2.13s.15.16.18
h = 5.6.9s.11s.13.15.19.21.22.24.26.29.31 (32)
i = 1.2.3.9.10.12s.16s.18.21
j = 3.4.12.17s.19s
k = 3.4.12.17s
l = 3.4.9s.12.16.17.18.19

156. 5069 David E House

3124567890E	1 6 7 18 19	
1234567809E	s s - s	
24135678E90	2.7s.15s.18	
4321	s -	
3142	s -	
1234	s -	
312456E9780	a	
1324658709E	1.2.3.7.8.10s.12s.21	
3412	s -	
4231	s -	
12436587E90	2.9s.15.16.18	A
2341657890E	7s.9.10.13s.15s.22	
2134	1s.10s.18	
312546E9780	b	
31527486E90	1s.3.9.10.12s.18.21	
3152748609E	2.6s.15s.19s	
31526487	3.4.12.17s	
31427586	3.4.12.17s.19s	
31426587	3.4.12.17s	
13245678	c	
21436587	A	

a = 5.6.11s.13s.15.19.21.22.24.26.29.31 (32)
b = 1.5.7.11s.13.14.15.16.19.21.22.24.26.29.31 (32)
c = 2.4s.7s.13.16s.17.19s.22.24.26.28.31.33 (34)
Start from rounds as the second row of a quick six

157. 5091 David E House

```
 2314567890E  1  6  7  9 16 18
-----------------------------
546321              a
23415678E90  1.5.6.18
2134               s     s  -
21345679E80  8s.21
1234         1.2.10s.15.16
2134567E098  1.7.8.21
1234         2.3.12s.15.16
1234567809E  13s
14235678E90  2.15s.18
4312               s        -
3241               s        -
2314               s  s     -
1543E276980          b
4352618709E  1.2.3.6.12.13s.18
125364             -     s  s
123465          s     s     -
2413               s        -
4321               s        -
3142               s        -
1342657890E          c
1234         1s.10s.18
32546178E90  -  -
312465             s     s  2
1342658790E          d
13526487E90  1.19s
1253                        s
12537486     3.4.12.17s
21436587     3.4.12.16.17.19s
2143657E098  1.s8.s13.s15.21
3152048E697  2.3.6.7.s9.s16
1352647890E          e
3152E476980          f
4152638709E  1.2.3.7.12.s13.s16
135264             -  s     s
132465          s     s     -
3412               s        -
4231               s        -
2143               s        -
-----------------------------
a = 1.5.6.9s.12.14.15.16.17.18.19 (20)
b = 1s.6.10.11.13s.14.15.19 (20)
c = 3.7s.13.14.16.17.18.19 (20)
d = 7s.9.10.13s.15s.18.22
e = 4.5.6.s7.s9.s14 (20)
f = 1.5.s9.s11.13.15.19 (20)
```

158. 5091 David E House

2314567890E	1	6	7	9	16	18
546321			a			
23415678E90	1.5.6.18					
2134			s		s	-
21345679E80	8s.21					
1234	1.2.10s.15.16					
2134567E098	1.7.8.21					
1234	2.3.12s.15.16					
1234567809E	13s					
14235678E90	2.15s.18					
4312			s			-
3241			s			-
2314			s	s		-
1543E276980			b			
4352618709E	1.2.3.6.12.13s.18					
125364			-		s	s
123465		s		s		-
2413			s			-
4321			s			-
3142			s			-
1342657890E			c			
1234	1s.10s.18					
23146578E90	-		s	s		2
7856341290E			d			
31426587			e			
13426587E90	-		s			
12537486	3.4.12.s17.18.19					
21436587	3.4.12.16.17.s19					
2143657E098	1.s8.s13.s15.21					
3152048E697	2.3.6.7.s9.s16					
1352647890E			f			
3152E476980			g			
4152638709E	1.2.3.7.12.s13.s16					
135264			-	s		s
13427586	3.4.12.s17.s19					
13246587	3.4.s9.12.s17.18					
3412			s			-
4231			s			-
2143			s			-

a = 1.5.6.9s.12.14.15.16.17.18.19 (20)
b = 1s.6.10.11.13s.14.15.19 (20)
c = 3.7s.13.14.16.17.18.19 (20)
d = 4.5s.9.10.11s.13.18.19s.22
e = s1.s5.6.7.10.11.13.16.s22
f = 4.5.6.s7.s9.s14 (20)
g = 1.5.s9.s11.13.15.19 (20)

8190. 5100 David E House

2143658709E	6	7	9	18	19	
12536487E90			a			
124365					s	
2134		s	s	-		
1234		s				
2143		s	s	-		A
215364	s					
1243658790E			b			
2314		s		-		
3241		s	s	-		
24315678E90			c			
4123		s		-		
1342		s		-		B
3214		s		-		
321456E9780			d			
3241758609E			e			
12346587			f			
3142			B			
21436578			g			
12536478E90			h			
3241657890E			A			
31245678E90			j			
2341			B			
231456E9780			k			
2341758609E			e			
13246587			f			
2143			B			

a = 2.3s.12s.15.16.19s
b = 6.7.12.14.15.16.17.18.19 (20)
c = 2.5.7.8.10s.13.14.16.18s.20 (20)
d = 3.8s.12s.21
e = 1.2.3.9.10.12s.18.21
f = 3.4.9s.12.16.17.18
g = 2s.7s.9s.13s.15.16
h = 2.5s.14s.15.16.19s
j = 2.5.7.8.9.10.16.18s.20 (20)
k = 3.8.9.12s.18.21
Start from rounds as the first row of a slow six

159. 5127 David E House

2314567890E	1	7	9	10	18	19	
231456789E0				a			
34215678E90		s		s	-		
4132		s			-		
1243		s			-		
2134		s	s		-		
213456E9780				b			
21345679E80	3.12s						
1234				c			
2134567E098				d			
2314	4s.17						
2314058E697				e			
315204				f			
43215E09876				g			
54267391E80				h			
412356E9780				i			
3142758609E				j			
1342				x			
13426578E90				k			
3412658709E				l			
325164					s	-	
213465				y			
245361					s	-	A
432165				y			
415263					s	-	
124365				y			
2143657890E				m			
2314	s			s	-		
23516478E90	-					-	
324156				n			
2314		s	s		-		
231456E9780				b			
3421658709E				o			
2143				A			

a = 1.3.5.6.9.10.12.15s.17.18.21.23.24.25.28.30.33.35 (36)
b = 1.2s.4s.6.7s.9.11.14s.16.19.21.22.24.26.29.31 (32)
c = 1.2.10s.15.16
d = 1.7.8.21
e = 2.3.8s.10s.21s
f = 4.5.14s.16.17s.19
g = 2.4.6.9.11 (12)
h = 3.4.5.7s.15.18s (18)
i = 2.6.7.9s.10.11.12.18s.19.22
j = 1.2.3.9.10.12s.16s.18.21
k = 2.13.15s
l = 2.6.7s.13s.15s.19s
m = 2.7s.12.14.16.17.18.19 (20)
n = 5.14s.16s.19s
o = 1.2.3.7.8.10s.12s.18.21
x = 3.4.7s.12s.17s
y = 3.4.7.12s.17s.18.19

160. 5350 David E House

```
 1234567890E  6 16 18 19
 ____________________________
 23145768     s1.s6.7.s10.s17.s19
 32415678E90  1.s4.6.7.s9.s17.18
 ____________________________
 2134            s  -    |
 1423            s  -    |A
 4312            s  -    |
 ____________________________
 123456E9780       a
 1243658709E       b
 ____________________________
 125364                 s |
 1352                 s   |B
 134265       s           |
 ____________________________
 315462       s1.s7.s10.19
 3451              B
 3124657890E       c
 1342         s1.s7.9.10.18
 2143         s1.9.10.s16
 12436578E90  1.s13.s16.s22
 1342              B
 12436587     1.9.10.s13.s15.22
 125364                 s
 12537486     3.4.12.s17
 13526487     3.4.12.17.18
 134265       s
 4312658709E  2.6.s9.s15.18.19
 4213              B
 245163       3.4.s12.16.17.19
 2154              B
 2134657890E       d
 34215678E90       e
 2314              A
 2314567890E       z
 ____________________________
a = 5.6.s11.13.15.19.21.22.24.26.29.31 (32)
b = s1.6.s7.s11.13.14.15.16.17.19.s21.24.26.29.31 (32)
c = 3.s6.s9.13.14.16.17.18.19 (20)
d = 3.s6.13.14.16.17.18.19 (20)
e = 1.5.7.8.s9.10.11.13.15.16 (20)
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a quick six
```

161. 11111 David E House

```
 2314567890E  1  6  7  9 18 19
 ──────────────────────────────
 34215678E90        a
 ──────────────────────────────
 4132               s     -    |
 1243               s     -    |
 2134               s  s  -    |
 1423               s     -    |A
 4312               s     -    |
 3241               s     -    |
 2314               s  s  -    |
 ──────────────────────────────
 3421568709E        b
 2314               A
 231456E9870        c
 132456E9780  6.10s.19s
 1234                  s  2
 12345679E80  3.12s
 12345687E90        d
 1234568790E        e
 416352             f
 41236587E90        g
 215364          -
 ──────────────────────────────
 213465          s     s  -    |
 3142            -           2 |
 4132            -           s |B
 315264          -             |
 312465          s     s  -    |
 2143            -           2 |
 ──────────────────────────────
 1354628709E        h
 ──────────────────────────────
 341265             -     -  -  |
 325164                   s  -  |
 213465             -     -  -  |
 245361                   s  - |C
 432165             -     -  -  |
 415263                   s  -  |
 124365             -     -  -  |
 ──────────────────────────────
 1234658790E        j
 2134            s
 1243            s  s  -
 2143            s
 41237586           k
 21537486E90  -  -
 214375             B
 4123758609E        l
 215374          -
 214375             B
 41236578E90        m
 215364          -
 214365             B
 2354618709E        n
 214365             C
 ──────────────────────────────
```

a = 1.2.s4.5.7.s9.12.14.15.s18.20.22.23.24.25 (25)
b = 1.7s.13s.15s.18.22
c = 3.8s.12s.15s.21
d = 1.9.10.15s.18s.22
e = 10s.13s.22
f = s9.s16.19
g = 1.5.s14.s19
h = 2.7s.15s.18s.19
j = 9.10.18
k = 3s.6.12.19s
l = 2.6.15s.19s
m = 2.6.13.15s.19s
n = 2.s13.s15.s18.19
Start from rounds as the second row of a slow six

162. 12345 David E House

```
3124567890E  1  6  7  9 18 19
-----------------------------
34215678E90        a
-----------------------------
4132             s    -    |
1243             s    -    |
2134             s  s -    |
1423             s    -    |A
4312             s    -    |
3241             s    -    |
2314             s  s -    |
-----------------------------
3421568709E  1.7s.13s.15s.18.22
2314               A
34215687E90  1.7s.13s.18.22
2314               A
2314568790E  10s.13s.22
54632178     5.6.13s.15s.18s.22s
241356E9780  1.3.6s.8s.12s.14s.21
2134                   2
3124           -           s
31245679E80  3.12s
31645287E90  1.6s.10s.15s.22
412365       5.9s.14s.16s.18.19
215364         -
-----------------------------
213465         s    s -    |
3142           -         2 |
4132           -         s |B
315264         -           |
312465         s    s -    |
2143           -         2 |
-----------------------------
1354628709E  2.7s.15s.18s.19
-----------------------------
341265           -    -  - |
325164                s  - |
213465           -    -  - |
245361                s  - |C
432165           -    -  - |
415263                s  - |
124365           -    -  - |
-----------------------------
1234658790E  9.10.18
2134             s
1243             s  s -
2143             s
215364         s
41237586     3s.7.12.16s.19s
21537486E90  -  -
214375             B
4123758609E  2.6.15s.19s
215374         -
214375             B
41236578E90  2.6.13.15s.19s
215364         -
214365             B
2354618709E  2.13s.15s.18s.19
214365             C
-----------------------------
a = 1s.2.8.10.11.12.14.16.17.18.20s.27s.30s.33s (33)
```

Start from rounds as the fourth row of a slow six

4896. 5031 David E House

```
2314567890E  6  7  9 18 19
──────────────────────────────────────────────────────────────────────
32415678E90  s1.s3.4.6.7.8.s11.12.15.16.17.s19.20.23.25.28 (28)
2134            s     -
1423            s     -
4312            s     -
3421            s  s  -
4132            s     -
1243            s     -
2314            s     -
23145679E80  s8.21
231456E9780  3.s12
4123658709E  1.2.3.s4.s8.9.10.s12.s16.17.21
──────────────────────────────────────────────────────────────────────
215364       -           3 │
5132         -           2 │A
314265       -           3 │
──────────────────────────────────────────────────────────────────────
13579E24680  1.9.10.15.s17.18.24 (24)
13426587E90  1.2.4.s5.s7.s9.12.14 (18)
3142658790E  s7.s10.s13.22
13426578     s1.3.s7.13.14.16.17.18.19 (20)
1234         s1.s10.18
21436578E90  1.s7.s9.18
1324            s     -
3412            s     -
4321            s  s  -
3142            s     -
4132658709E  2.6.s13.s15.s19
2143               A
```

163. 5007 Andrew S Hudson

2314567890E	6	19	
21536478E90		a	
213465		2	
3142	-	2	
4123	-	2	
4132	s	2	A
3124	-	2	
2143	-	2	
2153648709E		b	
213465		2	
2143		A	
214563879E0		c	
213465		-	
2143		A	
2143658709E	1		

a = 1.5.7.8.10.11.13s.15s.16.17 (20)
b = 1.13s.15s.19s.22
c = 1s.6s.13s.19.22

164. 5009 Andrew S Hudson

2314567890E	1	6	7	9	10	18	19	
312465				a				
2143		-					2	A
4123	s	-			s		s	
215364		-						
213465		s		s		-		
3142		-					2	
1342			s					
31246578E90	-	-	-				2	
1342				A				
31246587				b				
1342				A				
3145628709E				c				
312465							-	
1342				A				

a = 5.7.8.10.11.13s.14.15.16 (20)
b = 1.2.7s.9s.10s.13s.15s.18
c = 2.6.7.15s.19

165. 5016 Andrew S Hudson

2143658709E	1	2	10	13	15	
432165879E0			a			
43216587E90			s			
4321658709E		-			s	
342165879E0			b			
34216587E90			s			
3421657890E		-	s	s	s	A
34216578E90	s	-			s	
3421658709E		-		s	s	
213465879E0			a			
2134658709E			A			B
123465879E0			b			
1234658709E			A			
2143			2B			

a = 2.6.10s.15s.18.19
b = 2.7s.10s.15s
Start from rounds as the first row of a slow six

166. 5016 Andrew S Hudson

(No 35)

2143658709E	1	6	7	16	18	
215364		s	s	s		
82436517		s		2		
2843				s		
12436587				2		
2143				s		
82436517E09	-			2		A
2843				s		
12436587				2		
2143				s		
214365879E0			A			
21536487E90	s	s	s	s		
82436517		s		2		
2843				s		
12436587				2		
2143				s		
2143658790E			2A			
2143658709E	s					

Start from rounds as the first row of a slow six

8611. 5009 John N Hughes-D'Aeth

2314567890E	6	7	9	18	19	
32415678E90	1s.	2.	7s.	9s.	15s.	18
2134		s		-		
1423		s		-		
4312		s		-		
3421		s	s	-		A
4132		s		-		
1243		s		-		
2314		s		-		
5463217890E	5.	6.	9s.	12.	14.	15. 16. 17. 18. 19. (20)
42136587E90	1s.	2.	6.	13.	14.	15. 16
2413		s				
1324	-			-	-	
3124		s				
1352648709E	2.	15.	16.	19		
3152		s				
314265	s					
4231	-			-	-	
2431		s				
3124	-			-	-	
24316578E90	2.	6.	13s.	15s.	18.	19
4213			A			
435261				-	-	
1342658790E	7.	10s.	13s.	15.	16.	19s. 22
31426587E90	1.	7s				
4231	-			-	-	
2431		s				
3425618709E	2.	6.	9s.	15s.	18s.	19
421365		s	s	2	-	
2413		s				
1324	-			-	-	
1342			s	-		

167. 5001 David G Hull

3124567890E	6	7	18		
13245678E90		a			
3412		s	-	B	A
4231		s	-		
2143		s	-		
2153648709E		b			
132465	-	-	-	C	
135462	s				
341265	-	-	-		
42316587E90		c			
3412		B			
123465E7908		d			
2413		s	-		
4321		s	-		
4351628709E		e			
123465		C			
24135678E90		f			
2143658709E		A			

a = 1s.2s.4.5.7.9s.11.18s.20s.22.24.25 (25)
b = 2.4s.5.7.9s.10.13s.17s.20 (20)
c = 2.15.16.18
d = 2.6.10s.18.19
e = 6s.10s.15s
f = 2.4s.5.7.9s.10.13.14.16.20 (20)
Start from rounds as the fourth row of a slow six

168. 5004 David G Hull

1234567890E	7	9	18	19	
24135678E90			a		
4321	s		-		A
3412	s	s	-		
4231	s		-		
2413658709E			b		
435162	s		-	s	B
432165				s	
315264	s		-	s	
314265				s	
125463	s		-	s	
123465				s	
21436587E90			c		
1324	s		-		C
3412	s		-		
4321			A		
1234			C		
241365E7908			d		
4231	s	s	-		
2143	s		-		
3412			C		
4321	s	s	-		
1354628709E			e		
132465				s	
2143			B		
21435678E90			f		
1234			A		
1234567890E			z		

a = 1s.2.15.16.18
b = 4.5.8.10s.11.14.20.22.23.24.25.26 (26)
c = 2.7s.9s.15s.18
d = 3.7.9.11.13.19.21
e = 9.10.15.16.18.19
f = 1s.2.3.4.5s.7.9.12s.14.15.16 (18)
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a quick six

169. 5005 David G Hull

1234567890E	1	2	7	9	10	15	18	19	
21435678E90	s	-	s	s		s	-		
1324			s				-		
3412			s				-		A
4231			s				-		B
2413			s	s			-		
1234					A				
123456E9780					a				
2453618709E					b				
241365								s	
435162			s				-	s	
432165								s	
315264			s				-	s	C
314265								s	
125463			s				-	s	
123465								s	
214365E7908			s	-	-	s	-		
1234			s	s			-		
3142					A				
1234658790E			-			s	-	s	
24136587E90	-		s				-		
4321			s				-		
3142			s				-		
1324			s	s			-		
2143					A				
1354628709E		-	s			s	-	s	
214365					C				

a = 4.5.6.7.9.12.14.15.16.17.18 (18)
b = 1.2.3.4.5.8s.10s.12s.14.15.21.22.23 (24)
Start from rounds as the last row of a quick six

170. 5009 David G Hull

1234567890E	1	7	9	16	18	
21346578E90			a			
4123			s	s	-	
1423				s		
3412			s	s	-	
4312				s		A
2341			s	s	-	
3241				s		
1234			s	s	-	
2134657890E			b			
1234			A			
21346587E90			c			
1234			A			
213465879E0	s			s		
4123			s	s	-	
3412		s	s	s	-	
4312				s		
2341			s	s	-	
3241				s		
1234			s	s	-	
2134658709E	-			s		
1234			A			

a = 1.5.8.9.10.11.13.15 (20)
b = 10s.13s.16s.22
c = 1s.2.13s.15.16
Start from rounds as the last row of a quick six
omit last course

1260. 5016 David G Hull

```
1234567890E
──────────
123456E9780   s1.4.5.6.7.9.s12.13.14.15.16.17.18 (18)
12345678E90   s1.3.4.5.s7.9.s11.s13.19 (20)
──────────
2413          s7.18 │
4321          s7.18 │A
3142          s7.18 │
──────────
13579E24680   3.5.6.8.12.14.15.16 (16)
13426587E90   1.2.s4.5.s7.s9.12.14 (18)
4321E098765   4.5.6.8.s11.12.15.18.20.22.25.27 (28)
4357698E021   6.8.9.11.13.15 (16)
543267890E1   1.4.s10.s12.14.s17.22.24.26.29.31 (32)
2413658709E   3.4.5.6.s12.14.15.s17.18.19.22.23.24 (24)
──────────
4321          3.4.s12.16.17.18 │
3142          3.4.s12.16.17.18 │B
1234          3.4.s12.16.17.18 │
──────────
6543217890E   7.9.10.s13.14.15.18.s22
56472381      s5.s7.8.9.10.13.14.17 (20)
3152648709E   s1.3.4.7.11.12.s14.16.17.18.19
3251          3.4.s12.17.18
31527486      3.4.12.17.18
3152748690E   3.4.5.6.7.s9.s11.s13 (20)
123475869E0   1.6.7.s10.18
1342758609E   1.3.4.s9.s12.17
1234657890E   s2.s10.13.s15.18
34125678E90   1.5.s7.8.9.10.11.13.15.16 (20)
1324            A
1543E276980   5.6.s11.s13.s15.19 (20)
9E012345678   1.2.s6.s8.9.10.s13.17.19.22.24.26.29.31 (32)
908674523E1   s6.7.8.9.11.13.15 (16)
0E139527486   6.9.11.13.15 (16)
E0987654321   s2.3.6.s9.s11.15.16.18.20.23.25 (26)
E0132547698   6.8.9.11.13.15 (16)
1324658709E   6.9.s14.16.20 (20)
2143            B
1234568790E   s1.5.7.8.10.11.s13.14.15 (20)
12345678      s1.3.13.14.16.17.18.19 (20)
──────────
Start from rounds as the last row of a quick six
```

1261. 5022 David G Hull

```
 31527496E80
 ___________
 645237198E0  s2.s5.7.s10.s13.15
 42315678E90  s2.3.s6.7.s10.s12.s16.21.22.24 (24)
 ___________
 2143         s7.18 |
 1324         s7.18 |A
 3412         s7.18 |
 ___________
 4321         s7.s9.18
 2413           A
 531246E9780  3.s7.8.9.s12.s14.21
 0E123456789  s2.4.5.6.8.s10.14.18 (20)
 35179E24680  1.2.4.5.6.8.9.10.13.s17.18.20.23.24 (24)
 3514028E697  1.s2.s5.7.s11.s15.17.18 (20)
 4321658709E  s2.3.4.s6.s8.10.s12.17 (20)
 ___________
 3142         3.4.s12.16.17.18 |
 1234         3.4.s12.16.17.18 |B
 2413         3.4.s12.16.17.18 |
 ___________
 19E02345678  3.4.5.6.9.11.14.20.22.24.27.29 (30)
 908674523E1  6.8.11.13.15 (16)
 7856341290E  6.10.12.13.14.15.17 (18)
 32416587E90  s1.2.7.s11.13.15.18.20
 4312           A
 3152648709E  2.s6.7.s15
 3251         3.4.s12.17.18
 31527486     3.4.12.17.18
 31527486E90  2.s15
 123475869E0  6.7.s10.18
 1342758609E  1.3.4.s9.s12.17
 1234657890E  s2.4.s10.13.s17.18
 123456E9780  1.s6.7.s11.13.14.15.s17.19.21.22.24.26.29.31 (32)
 1324658709E  1.2.3.s4.s8.s10.s12.17.21
 2143           B
 1234568790E  s1.5.7.8.10.11.s13.14.15 (20)
 12345678     s1.3.13.14.16.17.18.19 (20)
 ___________
Start from rounds as the last row of a slow six
```

171. 5050 David G Hull
(No 2)

2314567890E	6	7	9	18	
546321		a			
32415678E90		b			
2134		s		-	A
1423		s		-	
4312		s		-	
3421		s	s	-	
4132		s		-	
1243		s		-	
2314		s		-	
2354618709E		c			
342165	-	-		-	B
345162	s				
413265	-	-		-	
415263	s				
124365	-	-		-	
125364	s				
231465	-	-		-	
32416587E90		d			
2314		A			
2314658790E		z			
32417586		e			
3152748609E		f			
31527486E90		g			
3251648709E		h			
324165		B			
3124568790E		i			
31245678		j			

a = 1.5.6.9s.12.14.15.16.17.18.19 (20)
b = 1.5s.7.8.10s.11.12.13.15s.16 (20)
c = 1.2.3.5s.7.9.12s.14.16.17 (18)
d = 2s.4s.6s.7.8.11s.12.14s.16 (20)
e = 3s.7s.9s.12.18
f = 1s.18.19
g = 2.15s
h = 2.3s.12.15s.18s
i = 1s.5.8.9.10.11.13s.15.16 (20)
j = 1s.3.13.14.16.17.18.19 (20)
z = 12.14.15.16.17.18.19 (20)

172. 5052 David G Hull

2314567890E	1	6	7	18	19	
32415678E90			a			
2134			s	-		
1423			s	-		A
4312			s	-		
531246E9780			b			
3124658709E			c			
2341			3x			
2314657890E			d			
13546278E90	-	-				
124365		s		2		
425361		-				
413265		s		2		
315264		-				
342165		s		2		
3152E476980			e			
1234576890E			f			
42315768E90			g			
3241		-			s	
3142				s		
34215678			h			
2314			A			
5463217890E			i			
3214658709E			j			
4123			2x			
135264			y			
134265			z			
3124568790E			k			
13579E24680			l			
13426587E90			m			
12537486			n			
2314567890E			o			

a = 1s.2.7s.9s.15s.18
b = 4s.6.7.9.12.14.15.16.17.18 (18)
c = 1.2.3.4s.7.8.9.11.12s.17.20s.21
d = 9.10.13s.15s.18.22s
e = 9.11.13.19.21.22
f = 1.6.10s.13s.14.16.18s.19
g = 1.9s.16s.18s
h = 4s.6s.9s.11s.17.20s
i = 5.6.9.10.13s.22
j = 6.9.10.13.14.15.16.22s
k = 1s.5.7.8.10.11.13s.14.15 (20)
l = 1s.3.5.6.8.9s.12.16 (16)
m = 1.2.4s.5.7s.9s.12.14 (18)
n = 3s.9s.12.19s
o = 6.10.11.13.14.15.16s.19.22
x = 3.4.7s.12s.17s.18
y = 3.4.7s.12s.17.18.19
z = 3.4.12s.17s.19s

173. 5077 David G Hull

```
1234567890E  1  6  7  9 18 19
-------------------------------
3142658709E          a
125463               s     -  s
123465                        s
245361               s     -  s
241365                        s
435162               s     -  s
432165                        s
315264               s     -  s
12346587E90            b
-------------------------------
2413                 s     -   |
4321                 s     -   |
3142                 s     -   |
1324                 s  s  -   |A
3412                 s     -   |
4231                 s     -   |
2143                 s     -   |
-------------------------------
214365E7908  2.10s
1324                 s     -
3412                 s     -
4321                 s  s  -
3142                 s     -
1234                 s     -
123465879E0  2s.13s.22
2143                   A
215364            s
1354628709E  -  -  -     -  s
132465                        s
345261               s     -  s
341265                        s
425163               s     -  s
423165                        s
2143                 s     -
-------------------------------
a = 1s.4.9.12.13.14.21.22.23.27.29s (32)
b = 2.6.7.15s.18
Start from rounds as the last row of a quick six
```

174. 5100 David G Hull
(No 1)

1234567890E	7	9	18	19	
24135678E90			a		
4321	s		-		
3412	s	s	-		A
4231	s		-		
2453618709E			b		
241365				s	
435162	s		-	s	
432165				s	
315264	s		-	s	B
314265				s	
125463	s		-	s	
123465				s	
21436587E90			c		
1324	s		-		
3412	s		-		
4231	s		-		
2413	s	s	-		
4321	s		-		
3142	s		-		
1234	s		-		
241365E7908			d		
4231	s	s	-		
2143	s		-		
1324	s		-		
3412	s		-		
4321	s	s	-		
1354628709E			e		
214365			B		
21435678E90			f		
1234			A		
1234567890E			z		

a = 1s.2.15.16.18
b = 2.5.7.8.9.10.13.14.17s.18.20s (20)
c = 2.7s.9s.15s.18
d = 3.7.9.11.13.19.21
e = 9.10.15.16.18.19
f = 1s.2.3.4.5s.7.9.12s.14.15.16 (18)
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a quick six

175. 5100 David G Hull
(No 2)

1234567890E	1	7	9	18	19	
24135678E90			a			
4321		s		-		
3412		s	s	-		A
4231		s		-		
245361879E0			b			
2413658709E	-				s	
435162		s		-	s	
432165					s	
315264		s		-	s	B
314265					s	
125463		s		-	s	
123465					s	
214365E7908			c			
1324		s		-		
3412		s		-		
4231		s		-		
3124568790E			d			
13579E24680			e			
13246587E90			f			
3412		s		-		
4231		s		-		
2143		s		-		
1234		s	s	-		
2413		s		-		
4321		s		-		
3142		s		-		
135462879E0			g			
2143658709E			B			
21435678E90			h			
1234			A			
1234567890E			z			

a = 1s.2.4s.5.6.7.8.9.10.11.14s.16 (20)
b = 3.6.8.12.15.16.20.21.23.26.28.31.33 (34)
c = 7s.9.10.15s.18
d = 2s.5.8.9.10.11.13.14.15.16 (20)
e = 1s.3.5.6.8s.9.12.16 (16)
f = 1.2.4s.5.7s.9s.12.14s (18)
g = 10s.13s.16s.19.22s
h = 1s.2.3.4.5s.7.9.12s.14.15.16 (18)
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a quick six

176. 5101 David G Hull

1234567890E	1	6	7	9	18		
12346587E90			a				
2413			s		-		
4321			s		-		
3142			s		-		
1324			s	s	-	A	B
3412			s		-		
4231			s		-		
2143			s		-		
125463879E0			b				
2413658709E	-	-	-		-		
245361		s					
432165		-	-		-		
435162		s				C	
314265		-	-		-		
315264		s					
123465		-	-		-		
123465E7908			c				
2143			A				
123465879E0			d				
2143			B				
215364		s					
2143658709E			C				

a = 1s.2.4.5.10s.12.13.15.22.23.24.28.30.33.35 (36)
b = 7s.9.10.18.19s
c = 10s.15s
d = 2s.7s.9s.13s.18.22
Start from rounds as the last row of a quick six

8612. 5007 J M Hadley Hunter

```
2314567890E  1  6 18 19
-------------------------------------
243156E9780  4.5.6.7.8.9.11.16.20 (20)
2314                 2
2413                 s
2134                 2
21346578E90  3.8s.10s.12s.21
-------------------------------------
3142                 -      2  |
4123                 -      2  |
4132                 s      2  |A
3124                 -      2  |
2143                 -      2  |
-------------------------------------
214365879E0  1.2.13s.15s
2134                   A
3142658709E  -   -        2
4123                 -      2
4132                 s      2
3124                 -      2
2143                 -      2
```

177. 5007 J M Hadley Hunter

2314567890E		1	6 19	
214365			a	
4132			- 2	A
3124			- 2	
2134			- s	
3142			- 2	
4123			- 2	
21346578E90		-	- 2	
3142			- 2	
4132			- s	
3124			- 2	
2143			- 2	
214365879E0			b	
2143658709E			A	

a = 5.7.8.10.11.13s.15.16 (20)
b = 1.2.13s.15s

8613. 5007 J M Hadley Hunter

```
2314567890E  6 19
-------------------
21435678E90  1.4s.9s.17
-------------------
4132           -  2 |
3124           -  2 |
2134           -  s |A
3142           -  2 |
4123           -  2 |
-------------------
4152638709E  2.4s.5.7.8.9.10.13s.17.20s (20)
-------------------
413562            - |
312564         -  3 |B
214563         -  3 |
412365         -  - |
-------------------
41236578E90  2.13s.15s
2143           A
2154638709E  2.13s.15s.19
214365         B
```

178. 5019 J M Hadley Hunter

2314567890E		5	6	19
21345678E90		1.4s		.17
3142			-	2
4123			-	2
4132			s	2
3124			-	2
2143			-	2
216453				-
612354			-	-
213465		-		2
2143			A	
2153648709E		2.13s		.15s.19s
213465				2
2143			A	

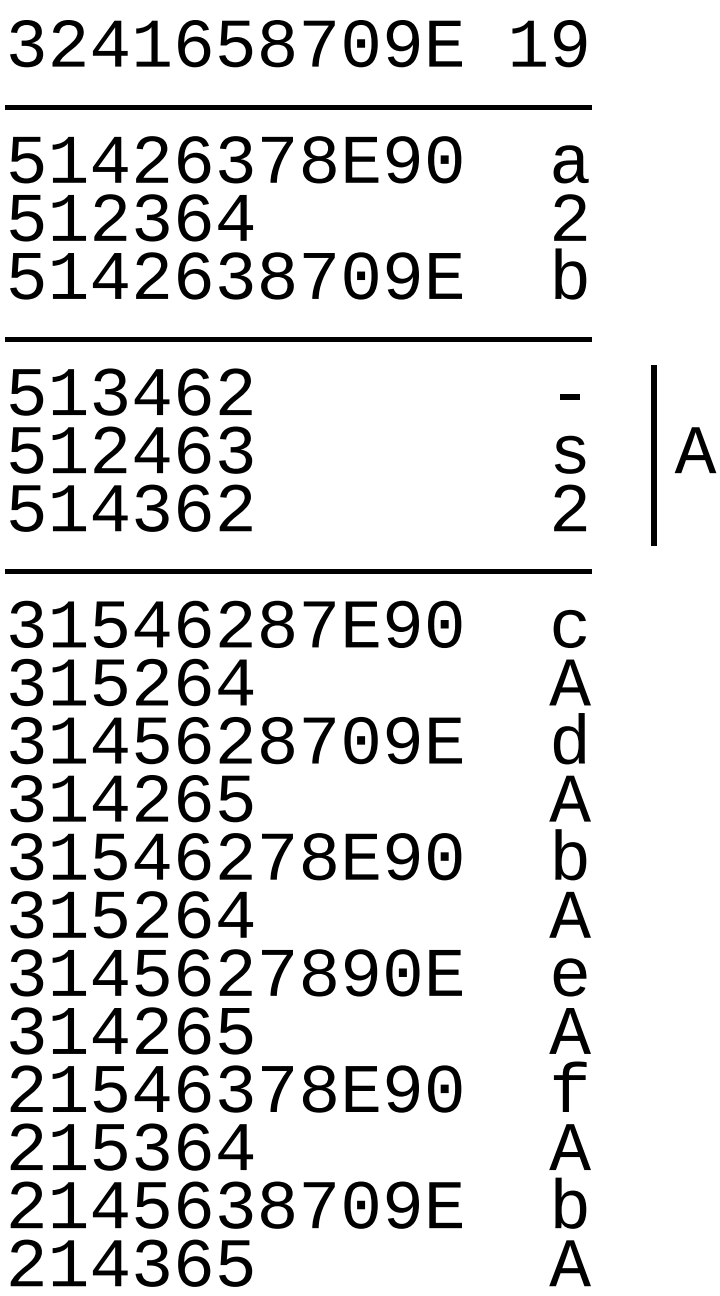
A

179. 5100 Stuart C W Hutchieson

```
2314567890E  7  9 18
_____________________
23148765        a
3421         s    -
_____________________
4132         s    -  |
1243         s    -  |
2134         s  s -  |A
1423         s    -  |
4312         s    -  |
3241         s    -  |
_____________________
32415768E90     b
2134         s    -
2314            A
231456E9780     c
3241567890E     d
_____________________
213456879E0     e  |
2134567890E     f  |
142356879E0     e  |
1423567890E     f  |B
431256879E0     e  |
4312567890E     f  |
324156879E0     e  |
_____________________
21345687E90  1s.7s.18
2314            A
231456879E0  1s
2314567890E     B
_____________________
```

a = 1.6s.10s.13.17s.19s.22
b = 1.3s.12
c = 4.5.7s.9.12.14.15.16.17.18 (18)
d = 1.2.4.6.7.8.10s.12.15.16.19s.20.22 (24)
e = 1.3.4.5.6.7.9s.13.14.16 (20)
f = 1.3.4.5.6.7.9s.13s (20)

180. 5000 John Hyden



a = 2.4s.8s.9.10.12.13.16s.18.20s (20)
b = 2.13s.15s.19
c = 2.7.9s.15.16.19
d = 2.15s.19
e = 2.10s.15s.19
f = 1.7s.9s.16s.19
Start from rounds as the fifth row of a slow six

181. 5000 John Hyden

3241658709E 2 6 13 15 19			
3124657890E		a	
315462		s	
41326578E90		b	
415362			-
412365			s
413562			2
412563			s
4132658709E	-	s	s -
412563		A	
514362789E0		c	
513264		A	
5143627890E		d	
513264		A	
2143658709E		B	

a = 3.4.5.6.7.9s.13s.16 (20)
b = 1.6s.7.9s.16s.19
c = 5.6.9.10.13.14.15.16.18.22
d = 1.10s.19
Start from rounds as the fifth row of a slow six

4316. 5001 John Hyden

3124567890E	1	6	7	18	19	
124365E9780			a			
4312		-		-	-	A
3412			s			
1234		-		-	-	
2134			s			
3421		-		-	-	
4321			s			
2143		-		-	-	
43126578E90			b			
3412			s			B
1234		-		-	-	
2134			s			
3421		-		-	-	
4321			s			
2143		-		-	-	
1243657890E			c			
2143			A			
43126587E90			d			
2143			B			
124365879E0			e			
2143			A			
2143658709E	-					

a = 1s.2.5s.8s.12.15s (21)
b = 1.4.5.6.8.11s.14.16.19.20.21.22.24 (24)
c = 1s.7s.13s.22
d = 1.6s.7.8.9.10.12.13.16.18s (20)
e = 3s.4.6s.9s.11s.13 (20)
Start from rounds as the fourth row of a slow six

684. 5001 John Hyden

3124567890E	6	19	
31246578E90		a	
215463	-	3	A
513462	-	3	
3145	-	2	
413265	-	-	
4132658709E		b	
415263	s	3	
5124	-	2	
213465	-	3	
41236578E90		c	
2143658709E		A	

a = 1s.5s.6.7.12.14s.17.20 (21)
b = 2.13s.15s
c = 2.4s.6s.10.12.13.16.20 (20)
Start from rounds as the fourth row of a slow six

4004. 5001 John Hyden

3124567890E	6	7	9	18	19	
213456E9780			a			
1234		s				
3412	-			-	-	
4312		s				
1243	-			-	-	
2143		s				
12345678E90			b			
2413		s		-		A
4321		s		-		
3142		s		-		
1324		s	s	-		
3412		s		-		
4231		s		-		
2143		s		-		
1234568709E			c			
2143			A			
12346578E90			d			
2143			A			
1234658709E			c			
2143			A			

a = 1s.2.4.6s.7.8.9.12s.14s.15.17.19s (19)
b = 3.7s.8.9.12s.18.21
c = 2.7s.9s.13s.15s.18
d = 2s.3.7.8.9.10.12.13.15s.18.21s
Start from rounds as the fourth row of a slow six

9456. 5001 John Hyden

23517496E80	6	19		
31526478E90		a		
314265		s		
415263	-	3	A	B
5124	-	2		
213465	-	3		
2134658709E		b		
4123		A		
31546278E90		c		
2143658709E		B		

a = 2s.7s.8.9.13.15s.21
b = 2.13s.15s
c = 2.4s.6s.10.12.13.16.17.20 (20)
Start from rounds as the fourth row of a slow six

3258. 5003 John Hyden

2314567890E	6	7	9	18	19	
132456E9780			a			
3124		s				
2431	-			-	-	
4231		s				
3142	-			-	-	
1342		s				
31245678E90			b			
1432		s		-		
4213		s		-		
2341		s		-		
3214		s	s	-		A
2431		s		-		
4123		s		-		
1342		s		-		
3124568709E			c			
1342			A			
31246578E90			d			
1342			A			
3124658709E			c			
1342			A			

a = 1s.2.4.6s.7.8.9.12s.14s.15.17.19s (19)
b = 3.7s.8.9.12s.18.21
c = 2.7s.9s.13s.15s.18
d = 2s.3.7.8.9.10.12.13.15s.18.21s

182. 5004 John Hyden

2143658709E	1	5	6	19	
6142358 79E0			a		
615432				-	
512436			-	3	
3164528709E	-	-	-	3	
612453			-	3	A
2146			-	2	
413652			-	3	
51324687E90			b		B
512643				2	
6152			A		
2143658709E			B		

a = 5s.11.14.15.16.17.19s (20)
b = 2.6s.14.15.19
Start from rounds as the first row of a slow six

183. 5005 John Hyden

1234567890E	6	19	
21456378E90		a	
2154	s	2	
5142	-	2	A
413265	-	3	
315264	-	3	
3145628709E		b	
3154	s	2	B
512463	-	3	
213465	-	3	
21536478E90		b	
415263		A	
4135628709E		b	
214365		B	

a = 1.7.8.10.11.13.14.15.16 (20)
b = 2.13s.15s.19
Start from rounds as the last row of a quick six

187. 5005 John Hyden

1234567890E	6	19	
41325678E90		a	
3124	-	2	
3142	s	2	
4123	-	2	
4123568709E		b	
2134	-	2	
3142	-	2	
4132	-	s	A
3124	-	2	
2143	-	2	
21435678E90		b	
214365		c	
4123		A	
4123658709E		b	
2143		A	

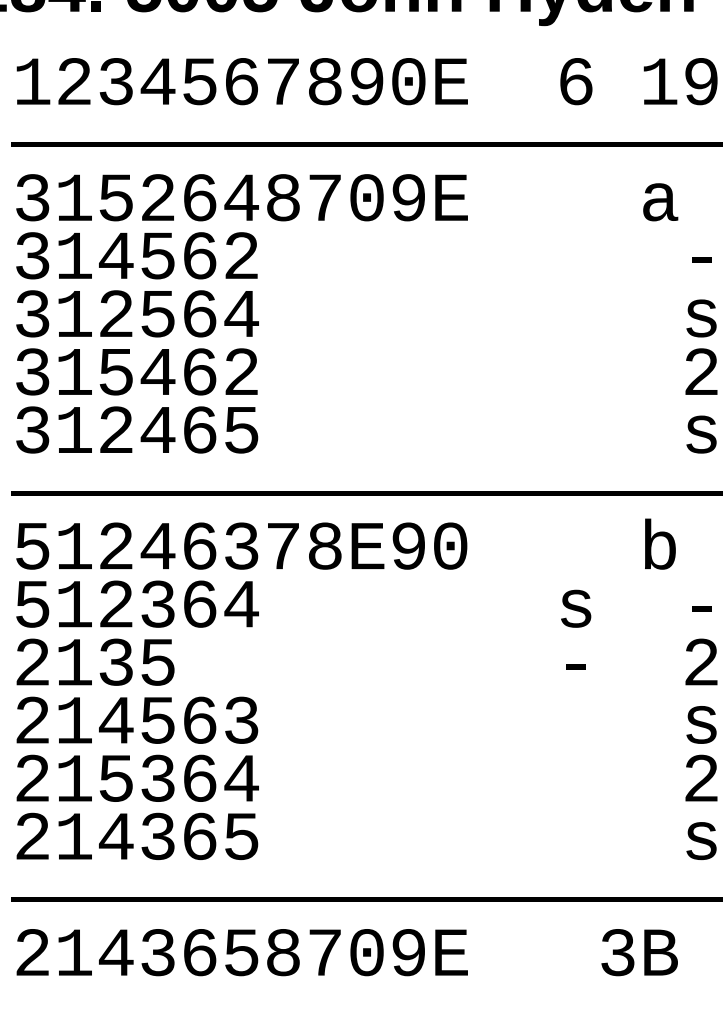
a = 1s.2.9s.15.16
b = 2.13s.15s
c = 4.7s.8.9.10.11.13 (20)
Start from rounds as the last row of a quick six

10934. 5005 John Hyden

1234567890E	6	19	
21436578E90		a	
415362	-	3	A
5134	-	2	
312465	-	3	
3154628709E		b	
5143	-	2	B
412365	-	3	
2134	-	2	
3142	-	2	
31426578E90		c	
2134		A	
2154638709E		b	
214365		B	

a = 1.5.7.8.10.11.13s.14.15 (20)
b = 2.13s.15s.19s
c = 2.13s.15s
Start from rounds as the last row of a quick six

184. 5005 John Hyden



a = 1s.5.8s.9.10.13.14.17s.18 (20)
b = 2.7.13s.15.16
Start from rounds as the last row of a quick six

12216. 5005 John Hyden

1234567890E	6	7	18	19	
123456E0987			a		
2134		s			
3421	-		-	-	
4321		s			
2143	-		-	-	
21435678E90			b		
1243		s			A
4312	-		-	-	
3412		s			
1234	-		-	-	
2134		s			
3421	-		-	-	
4321		s			
4321568709E			c		
2143			A		
216354		s			
21436578E90			d		
4321			A		
4321658709E			c		
2143			A		

a = 1s.2.3.13s.14.15.16.17.18.19 (20)
b = 1.3.12.13
c = 2.13s.15s
d = 2.5s.6.13s.14.15
Start from rounds as the last row of a quick six

185. 5007 John Hyden

2314567890E	19	
31526478E90	a	
314562	-	
312564	s	
3142658709E	b	
315264	s	A
312465	2	
315462	s	
41256378E90	c	B
413265	A	
4153628709E	b	
412563	A	
214365	2B	

a = 3.4.8.10.15.19s.22s.24s (26)
b = 2.13s.15s.19
c = 2.4s.6.7.10.12.13.17.20 (20)

186. 5007 John Hyden

2314567890E	6	19	
41325768E90		a	
3124	-	2	
31265478		b	
314256		-	
4123	-	2	
4123568709E		c	
2134	-	2	
3142	-	2	
4132	-	s	A
3124	-	2	
2143	-	2	
21435678E90		c	
214365		d	
4123		A	
4123658709E		c	
2143		A	

a = 1.4s.6.7.9s.16s.17
b = 6s.17s.19
c = 2.13s.15s
d = 4.7s.8.9.10.11.13 (20)

189. 5007 John Hyden

2314567890E		6	19
31245678E90			a
2143		-	2
216354		s	3
6132		-	2
314256		-	3
3142568709E			b
2143			A
21436578E90			c
3142			A
3142658709E			b
2143			A

A

a = 1.4s.7s.17

b = 2.13s.15s

c = 1s.2.4s.5.7.8.9.10.13s.20 (20)

190. 5007 John Hyden

2314567890E	6	19	
41263578E90		a	
215634	-	3	
512436	-	-	
2163548709E		b	B
214653		-	
4162	-	2	
613254	-	3	
314256	-	3	
413652	-	-	
2143658709E		2B	

a = 1.5.8.10.11.13.15s (20)
b = 2.5.13s.15s.19

191. 5007 John Hyden

2314567890E	6	19	
21436578E90		a	
4132	-	2	
315264	-	3	
513462	-	-	
512463	s	3	A
2145	-	2	
413562	-	3	
312564	-	3	
213465	-	-	
2134658709E		b	
2143		A	

a = 1.5.8s.10.11.13s.15s (20)
b = 2.13s.15s

192. 5007 John Hyden

2314567890E 6 19

21436578E90 a

415362	-	3	
5134	-	2	
312465	-	3	
315462	s	3	A
5143	-	2	
412365	-	3	
2134	-	2	

2134658709E b
2143 A

---

a = 1.5.8s.10.11.13s.15s (20)
b = 2.13s.15s

193. 5007 John Hyden

2314567890E 6 19

2143657890E a
215364 s

514362 - 3 | | |
4135 - 2 | A | |
312564 - 3 | | B

3142658709E b
2134 A

21346578E90 c
215463 s
2143658709E B

---

a = 1.5.8s.10.11.13s.15s (20)
b = 2.13s.15s.19
c = 2.13s.15s

194. 5007 John Hyden

2314567890E	6	19	
21436578E90		a	
415362	-	3	A
5134	-	2	
312465	-	3	
3124657890E		b	
2143	-	2	B
4132	-	2	
314265E9780		c	
2134		B	
21346578E90		d	
4123		A	
4123658709E		e	
2134	-	2	C
3142	-	2	
4132	-	s	
3124	-	2	
2143	-	2	

a = 1.5.8s.10.11.13s.15s (20)
b = 2.10s.15s
c = 3.6.12s.15s.19s.22
d = 3.8s.12s.21
e = 2.13s.15s

195. 5007 John Hyden

2314567890E	6	19	
21436578E90		a	
415362	-	3	A
5134	-	2	
312465	-	3	
3124657890E		b	
2143	-	2	B
4132	-	2	
3142	-	s	
4123	-	2	
2134	-	2	
213465879E0		c	
4123		A	
4123658709E		d	
2143		B	

a = 1.5.8s.10.11.13s.15s (20)
b = 2.10s.15s
c = 13s.15s.22
d = 1s.2.15s

11580. 5007 John Hyden

2314567890E	6	19
41635278E90		a
412356	s	
2143	-	s
4132	-	2
3124	-	2
2134	-	s
3142	-	2
3142568709E		b
2134		A
316452	-	
31246578E90		c
4132		A
413265870 9E		b
2143		A

a = 1.6.8.10.12.13.15s.17s.18 (20)
b = 2.13s.15s
c = 2.5s.6.13s.14.15

196. 5009 John Hyden

```
 3124567890E 19
 ____________
 3152648709E  a
 314562       -
 41256378E90  b
 ____________
 413265       -  |
 415263       s  |A
 412365       2  |
 415362       s  |
 ____________
 5142638709E  c
 512364       A
 21546378E90  c
 214365       A
 4125638709E  c
 415362       A
 51426378E90  c
 512364       A
 2154638709E  c
 214365       A
 ____________
a = 1s.4s.5.7.8.9.10.13s.17 (20)
b = 1.6.13s.15s.22
c = 2.6.13s.15s.19
Start from rounds as the second row of a quick six
```

197. 5009 John Hyden

3124567890E	6	19	
41256378E90		a	
4152	s	2	A
513264	-	3	
3125	-	2	
2153	-	2	
2153648709E		b	
415263	2	-	
314265	2	3	
4123	-	2	
21456378E90		c	
2143658709E		A	

a = 1.7.8.10.11.13.15s.17 (20)
b = 2.13s.15s
c = 2.6.13s.15s.19
Start from rounds as the second row of a quick six

198. 5009 John Hyden

3124567890E	6	19	
41256378E90		a	
413265		-	
3124	-	2	
2143	-	2	
3142658709E		b	
415263	-	3	A
5124	-	2	
2145	-	2	
5142637890E		c	
214365		A	
31426587E90		d	
214563		A	
5142638709E		e	
214365		A	

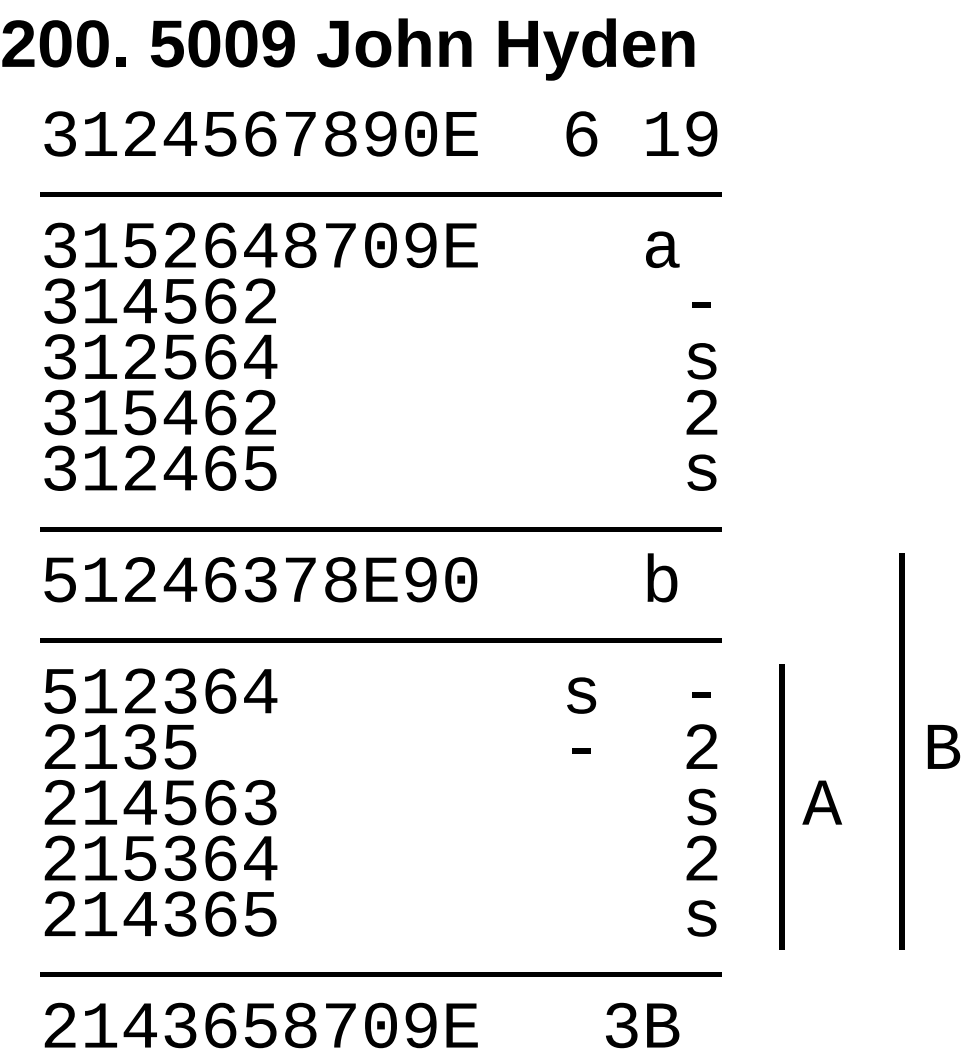
a = 1.7.8.10.11.13.15s.17 (20)
b = 2.7s.9s.13s.15.16
c = 1.2.7s.9s.13s.15.16
d = 1s.2.7s.9s.13s.15.16
e = 2.7s.9s.15.16
Start from rounds as the second row of a quick six

199. 5009 John Hyden

3124567890E	6	19	
31425678E90		a	
4123	-	2	
2134	-	2	
2134568709E		b	
3142	-	2	
4123	-	2	
4132	s	2	A
3124	-	2	
2143	-	2	
21436578E90		c	
2134		A	
2134658709E		b	
2143		A	

a = 1.9s.18
b = 2.13s.15s
c = 2.4s.5.7.8.9.10.13s.20s (20)
Start from rounds as the second row of a quick six

200. 5009 John Hyden



a = 1s.4s.5.7.8.9.10.13s.17 (20)
b = 2.7.13s.15.16
Start from rounds as the second row of a quick six

4005. 5015 John Hyden

```
 2314567890E 19
 ──────────────────
 124365E9780  a
 2143         7s
 41536278E90  b
 ──────────────────
 412563       -  │
 413562       s  │A
 415263       2  │
 413265       s  │
 ──────────────────
 4153628709E  c
 413265       A
 31526478E90  d
 312465       A
 3152648709E  c
 312465       A
 21546378E90  d
 214365       A
 2154638709E  c
 214365       A
 ──────────────────
```

a = 1s.2.5s.12 (21)
b = 3.6.8s.12s.21
c = 2.13s.15s.19
d = 2s.3.6.8s.12.13.15s.21s
Start from rounds as the second row of a slow six

2970. 5015 John Hyden

```
 2314567890E 19
 ____________________
 124365E9780  a
 2143         7s
 41536278E90  b
 ____________________
 412563       -  |
 413562       s  |A
 415263       2  |
 413265       s  |
 ____________________
 4153628709E  c
 413265       A
 31526478E90  d
 312465       A
 3152648709E  c
 312465       A
 21546378E90  d
 214365       A
 2154638709E  c
 214365       A
 ____________________
a = 1s.2.5s.12 (21)
b = 3.6.8s.12s.21
c = 2.13s.15s.19
d = 2s.3.6.8s.12.13.15s.21s
Start from rounds as the second row of a slow six
```

3565. 5015 John Hyden

2314567890E	6	7	19	
124563E9780		a		
2145		s		
21456378E90		b		
213465			-	
3142		-	2	
415263		-	3	
413265		s	3	A
315264		-	3	
5123		-	2	
214365		-	3	
2145638709E		c		
214365		A		

a = 1s.2.12.18 (21)
b = 3.8s.12s.21
c = 2.6s.13s.15s.19
Start from rounds as the second row of a slow six

11266. 5016 John Hyden

```
2143658709E  6 19
-------------------
21436578E90    a
-------------------
415362       -  3 |
5134         -  2 |A
312465       -  3 |
-------------------
3154628709E    b
-------------------
5143         -  2 |
412365       -  3 |B
2134         -  2 |
3142         -  2 |
-------------------
```

Repeat
a = 2.13s.15s
b = 2.13s.15s.19s
Start from rounds as the first row of a slow six

201. 5017 John Hyden

1234567890E	6	19	
21365478E90		a	
312456	-	-	
316452		s	
312654		-	
214653	-	3	
413652	-	3	
4136528709E		b	A
314256	-	-	
316254		s	
314652		-	
412653	-	3	
2164	-	2	
21546378E90		c	
2143658709E		A	

a = 1.6.7.19
b = 2.13s.15s
c = 2.5.13s.14.15
Start from rounds as the last row of a quick six

12550. 5017 John Hyden

1234567890E	6	7	18	19	
21435678E90			a		
4321	-		-	-	
3421		s			
2134	-		-	-	
123654	-	-		-	
2136		s			
123456	-	-		-	
3412	-		-	-	
4312		s			
1243	-		-	-	C
2143568709E			b		
4321	-		-	-	
3421		s			
2134	-		-	-	
123654	-	-		-	
123456	s			-	
3412	-		-	-	
4312		s			
1243	-		-	-	
12436578E90			c		
2143658709E			C		

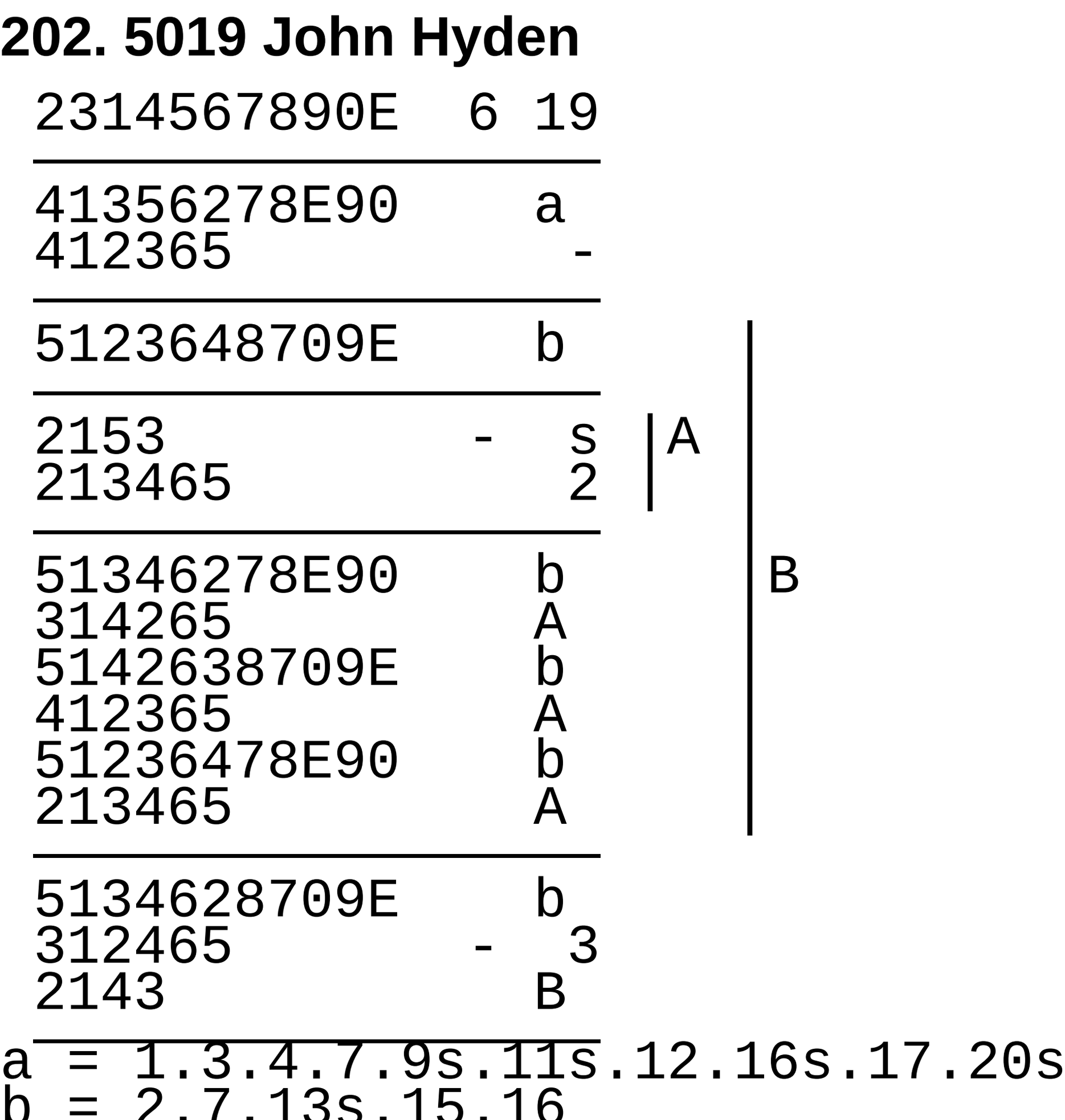
a = 1s.2.7s.9s.15s.18
b = 2.13s.15.16
c = 2s.3.8s.9.10.12.13.15s.18s.21s
Start from rounds as the last row of a quick six

11903. 5017 John Hyden

1234567890E	6	7	18	19	
12345679E80			a		
2134	-	-		s	
3421	-		-	-	
4321	-	-		s	
2143	-		-	-	
21435678E90			b		
1243	-	-		s	A
4312	-		-	-	
3412	-	-		s	
1234	-		-	-	
2134	-	-		s	
3421	-		-	-	
4321	-	-		s	
4321568709E			c		
2143			A		
216354				s	
21436578E90			d		
4321			A		
4321658709E			c		
2143			A		

a = 1s.2.8s.15s.21
b = 8s.21
c = 2.13s.15s
d = 2.5s.6.13s.14.15
Start from rounds as the last row of a quick six

202. 5019 John Hyden



203. 5019 John Hyden

2314567890E	6	19	
31456278E90		a	
312465		-	
5124638709E		b	
2145	-	2	A
412365	-	-	
51236478E90		b	
214365	-	3	B
5143628709E		b	
314265		A	
51426378E90		b	
413265		B	
5132648709E		b	
3125	-	2	
312465	s	-	
51246378E90		b	
213465		B	
5134628709E		b	
413265		A	
51326478E90		b	
314265		B	
5142638709E		b	
214365		A	

a = 1.3.4.7.9s.11s.12.17.20s
b = 2.7.13s.15.16

204. 5019 John Hyden

2314567890E 6 19

21456378E90 a

215364 2
5132 - 2
314265 - 3
4123 - 2 A
4123658709E b
215364 - 3
5132 - 2
314265 - 3

31456278E90 c
2143658709E A

---

a = 1.3.4.8s.9.11s.12.17.20.21
b = 2.13s.15s
c = 2.6s.13s.15s.19

205. 5019 John Hyden

2314567890E	6	19	
21456378E90		a	
213465		-	
315462	-	3	
5143	-	2	A
412365	-	3	
4123658709E		b	
3142		A	
31456278E90		c	
2143658709E		B	

a = 1.3.4.8s.9.11s.12.17.20.21
b = 2.13s.15s
c = 2.6s.13s.15s.19

206. 5019 John Hyden

2314567890E	6	19	
21456378E90		a	
213465		-	
315462	-	3	A
5143	-	2	
412365	-	3	
4123658709E		b	
3142		A	
31456278E90		c	
312465		-	
4132		A	
41326587O9E		b	
2143		A	

a = 1.3.4.8s.9.11s.12.17.20.21
b = 2.13s.15s
c = 2.6s.13s.15s.19

10627. 5019 John Hyden

2314567890E	6	19
21345678E90		a
3124	-	s
2143	-	2
2143568709E		b
4132	-	2
3124	-	2
3142	s	2
4123	-	2
2134	-	2
216354		-
2143658709E		c
2134		A
213465870 9E		b
2143		A

a = 1.4s.17
b = 2.13s.15s
c = 2.5s.6.13s.14.15

207. 5019 John Hyden

2314567890E	6	19	
21345678E90		a	
3142	-	2	A
4123	-	2	
4132	s	2	
3124	-	2	
2143	-	2	
2164538709E		b	
214356		2	B
4132	-	2	
316254	-	3	
31256478E90		c	
2143658709E		C	

a = 1.4s.17
b = 2.13s.15s.19
c = 2.5.9s.13s.14.15.18

208. 5019 John Hyden

2314567890E	6	19	
41235678E90		a	
2134	-	2	A
3142	-	2	
4132	-	s	
3124	-	2	
2143	-	2	
2143568709E		b	
4123	-	s	B
416253		-	
413256		s	
3142	-	s	
316452		-	
312456		s	
2134	-	s	
216354		-	
51236478E90		c	
2143658709E		C	

a = 1.4s.9s.16s.17
b = 2.13s.15s
c = 2.6.13s.14.15.19s

985. 5019 John Hyden

2314567890E	6	19	
21456378E90		a	
213465		-	
5134628709E		b	
3154	-	s	A
314265		2	
51426378E90		b	
412365		A	
5123648709E		b	
213465		A	
51346278E90		b	
314265		A	
5132648709E		c	
312465		A	
51246378E90		b	
214365		A	
5143628709E		b	
413265		A	
51326478E90		b	
312465		A	
5124638709E		b	
214365		A	

a = 1.3.4.8s.9.11s.12.17.20.21
b = 2.7.13s.15.16
c = 2.7.13s.15.16.19s

12864. 5019 John Hyden

```
2314567890E  7   9 18
-------------------------------------
2143567809E  1s.4s.9s.17
21435678E90  2.15s
-------------------------------------
1324             s       -  |     |
3412             s       -  |     |
4321             s   s   -  |A    |
3142             s       -  |     |
1234             s       -  |     |B
-------------------------------------
123456E7098  2.13s          |     |
2143             A          |     |
2143568709E  15s            |     |
1234             A          |     |
-------------------------------------
126453           6s
12346578E90  2.5s.6.13s.14.15
214365870 9E     B
```

209. 5020 John Hyden

321547698E0	6	19
21456378E90		a
213465		-
3142	-	2
4132	-	s
3124	-	2
2143	-	2
2143657890E		b
412563	-	-
413562		s
314265	-	-
31426587E90		c
4123	-	2
2134	-	2
2143	s	2
4132	-	2
3124	-	2
3124657890E		d
213564	-	-
214563		s
412365	-	-
4123658709E		e
2134	-	2
3142	-	2
4132	-	s
3124	-	2
2143	-	2

a = 1s.4.6.7.8.17.21
b = 2.10s.15s
c = 1s.2.13s.15s
d = 2.10s.13s.15s
e = 1.2.13s.15s
Start from rounds as the third row of a quick six

210. 5020 John Hyden

321547698E0	6	7	18	19	
1243568709E			a		
4312		-		-	-	
3412			s			
1234		-		-	-	
2134			s			A
3421		-		-	-	
4321			s			
2143		-		-	-	
21435678E90				b		
1243			s			
4312		-		-	-	
3412			s			B
1234		-		-	-	
2134			s			
3421		-		-	-	
3421567809E				c		
4321				A		
43216578E90				d		
1243				B		
1243658709E				b		
2143				A		

a = 2s.3.6.9.10.13s.16.17.21.24 (24)
b = 2.13s.15s
c = 2.15s
d = 2s.4s.5.7.8.9.11 (20)
Start from rounds as the third row of a quick six

211. 5021 John Hyden

```
 3124567890E  6 19
 ──────────────────
 61423587E90    a
 615432          -
 512436       -  3
 ──────────────────
 3126548709E    b  │
 316452          2 │
 612453       -  3 │A
 2146         -  2 │
 413652       -  3 │
 ──────────────────
 2143658709E   2A
 ──────────────────
```

a = 1.3s.8s.9.10.12.13.14.15.18.21.22
b = 2.6s.14.15.19
Start from rounds as the second row of a quick six

212. 5021 John Hyden

```
 3124567890E  6 19
 ---------------
 31425678E90    a
 4123         -  2
 2134         -  2
 2134568709E    b
 ---------------
 3142         -  2 |
 4123         -  2 |
 4132         s  2 |A
 3124         -  2 |
 2143         -  2 |
 ---------------
 21436578E90    c
 2134           A
 2134658709E    b
 2143           A
 ---------------
a = 1.9s.18
b = 2.13s.15s
c = 2s.3.8s.10s.12.13.15s.21s
Start from rounds as the second row of a quick six
```

213. 5021 John Hyden

3124567890E	6	19	
21365478E90		a	
3162	-	2	A
6123	-	2	
2163	-	s	
6132	-	2	
3126	-	2	
3126548709E		b	
214653	-	3	
4162	-	2	
613254	-	3	
31426578E90		c	
2143658709E		A	

a = 1s.2.6.15s.19
b = 2.13s.15s
c = 2.5s.6.13s.15s
Start from rounds as the second row of a quick six

9159. 5021 John Hyden

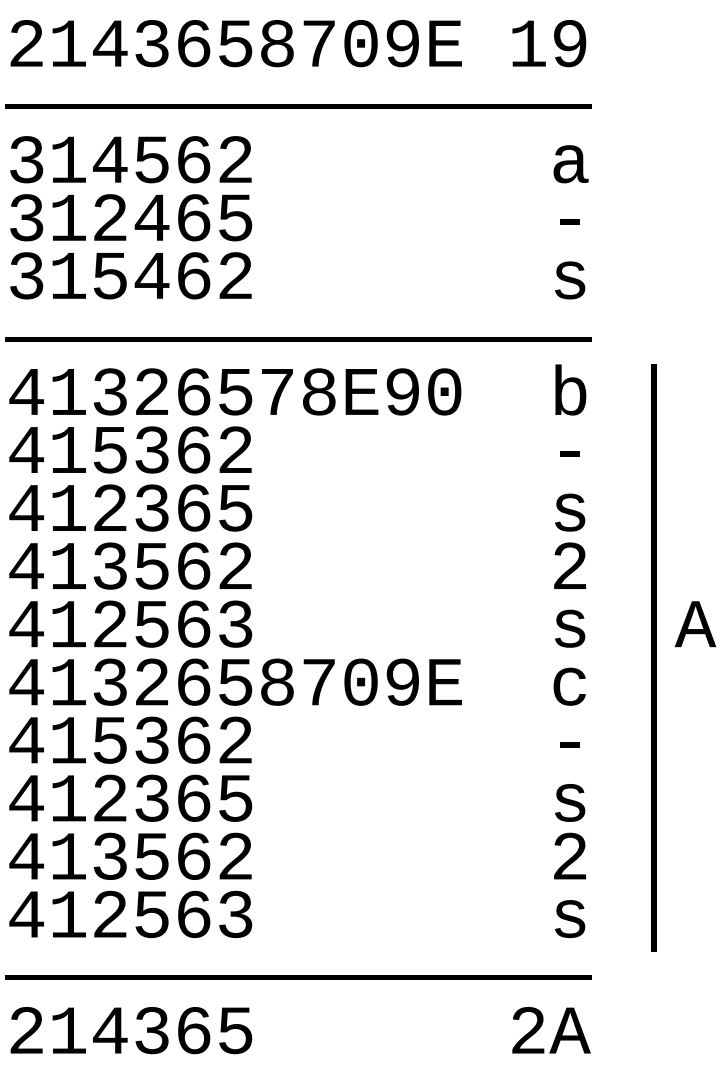
```
 3124567890E  6  9 18 19
 ──────────────────────
 413256E9780      a
 3142         -       s
 3124           s  -
 2134         -       s
 2143           s  -
 21435678E90  3.8s.12s.21
 ──────────────────────
 4132         -       2 │
 3142         -       s │A
 4123         -       2 │
 2134         -       2 │
 ──────────────────────
 2134568709E  2.13s.15s
 2143             A
 216354                 s
 21436578E90  2.5s.6.13s.14.15
 2134             A
 2134658709E  2.13s.15s
 2143             A
 ──────────────────────
a = 1.3.8.9.12s.16s.18.21
Start from rounds as the second row of a quick six
```

214. 5045 John Hyden

2314567890E	6	7	18	19	
3142568709E			a		
4231	-		-	-	A
2431		s			
3124	-		-	-	
1324		s			
2413	-		-	-	
4213		s			
1342	-		-	-	
13425678E90			b		
3142		s			B
4231	-		-	-	
2431		s			
3124	-		-	-	
1324		s			
2413	-		-	-	
2413567809E			c		
4213			A		
42136578E90			d		
3142			B		
3142658709E			b		
1342			A		

a = 1.4.8.10.15s.16.19.21.27 (28)
b = 2.13s.15s
c = 2.15s
d = 2s.4s.5.7.8.9.11 (20)

215. 5052 John Hyden



a = 2.3.4.5.7.10s.11.13s.14.15.16.18 (18)
b = 1.2.3.4.5.7.10.14.16s (18)
c = 2.13s.15s.19
Start from rounds as the first row of a slow six

13168. 5058 John Hyden

213547698E0	7	9	18	
31425687E90		a		
1324	s	s	-	
3412	s		-	
4231	s		-	
2143	s		-	
21435678	2s.	13s.	15s	
1324	s		-	
3412	s		-	
4231	s		-	
2413	s	s	-	A
4321	s		-	
3142	s		-	
1234	s		-	
8234561709E	2.	13s.	15	
2843		A		
286354	6s			
28436571E90	2.5s.	6.	13s.	14.15
8234		A		
12346587 09E	2.	13s.	15	
2143		A		

a = 2.3.4.5.6.7.10.12.15.18s.20s.22.24.27s (28)

Start from rounds as the first row of a quick six

15293. 5060 John Hyden

3241658709E	6	7	18	19	
123456E9780			a		
2134		s			
3421	-		-	-	
4321		s			
2143	-		-	-	
21435678E90			b		
1324	s	-	-	-	
3412	s	-	-	-	
4231	s	-	-	-	
3142	-		-	-	A
1234	s	-	-	-	
2413	s	-	-	-	
4321	s	-	-	-	
4321568709E			c		
2143			A		
216354	s				
21436578E90			d		
4321			A		
4321658709E			c		
2143			A		

a = 5s.7s.11s.16.21.23 (30)
b = 3.8s.12s.21
c = 2.13s.15s
d = 2.5s.6.13s.14.15
Start from rounds as the fifth row of a slow six

13464. 5065 John Hyden

1234567890E	7	18		
12346578E90		a		
2413	s	-		
4321	s	-	A	
3142	s	-		
31426587		b		
4321		A		B
432165E7890		c		
2413		A		
241365E7098		d		
1234		A		
1234658709E		e		
3142		A		
13246578E90		f		
2143658709E		B		

a = 1.2.3.4.5.7.9.11s.12.13.14.15.16.18 (18)
b = 1.2.3.4.5.7.8.9.10.12s.14.15.16 (18)
c = 1.3s.4.5.6.7.9.10.12.14.15.16.17 (18)
d = 1.3.4.5.6.7.9.10.11.12.14s.15.16.17.18 (18)
e = 1.3s.4.5.6.7.8.9.10.12.14.15.16.17 (18)
f = 2.7s.9s.13s.15s.18
Start from rounds as the last row of a quick six

9790. 5067 John Hyden

2314567890E	6	7	18	19		
1234E098765			a			
214356E9780			b			
4321	-		-	-		
3421		s				
2134	-		-	-		
21345678E90			c			
3421	-		-	-		
4321		s				
2143	-		-	-		
1243		s			A	
4312	-		-	-		B
3412		s				
1234	-		-	-		
1234568709E			d			
2134			A			
216354				-		
21436578E90			e			
2143658709E			B			

a = 1s.2.3.5.7.9s.10.11.16s.19.22.24.26.29.31 (32)
b = 1s.2.3.4.7s.11s.12.13.14.16.20 (20)
c = 3.8s.12s.21
d = 2.13s.15s
e = 2.5s.6.13s.14.15

13760. 5080 John Hyden

321547698E0	6	19	
21345678E90		a	
2143	s	2	
4132	-	2	
3124	-	2	
3124568709E		b	
2143	-	2	
4132	-	2	
3142	-	s	A
4123	-	2	
2134	-	2	
216354		-	
21436578E90		c	
4123		A	
4123658709E		b	
2143		A	

a = 1.2.3.5.6.9.14.15.17.18.19.20.22.23.25.30 (32)
b = 2.13s.15s
c = 2.5s.6.13s.14.15
Start from rounds as the third row of a quick six

216. 5081 John Hyden

```
 3124567890E  6 19
 ---------------
 2136548709E    a
 312456       -  -
 316452          s
 41325678E90    b
 ---------------
 416352          -  |
 412356          s  |A
 413652          2  |
 412653          s  |
 ---------------
 4132568709E    c
 412653         A
 61435278E90    b
 613254         A
 5143628709E    d
 513264         A
 21546378E90    b
 214365         A
 2154638709E    c
 214365         A
 ---------------------
```

a = 1.2.6.13s.15s.19
b = 1.2.3.4.5.7.10.14.16s (18)
c = 2.13s.15s.19
d = 2.5s.13s.15s.19
Start from rounds as the second row of a quick six

5518. 5019 john Hyden

```
2314567890E  6 19
```

```
21345678E90  1.4s.17
2143           s  2
4132           -  2
3124           -  2
3124568709E  2.13s.15s
```

```
2143           -  2 |
4132           -  2 |
3142           -  s |A
4123           -  2 |
2134           -  2 |
```

```
216354           -
21436578E90  2.5s.6.13s.14.15
4123             A
4123658709E  2.13s.15s
2143             A
```

217. 5004 Richard A G Inglis

2143658709E	1	6	19
215364			s
213465			2
3142		-	2
315264			s
31426578E90		a	
4123		-	2
2134		-	2
2143		s	2
4132		-	2
4132657890E		z	
3124		-	2
2143		-	2
21436587		b	
4132		-	2
3124		-	2
21436587E90	-	-	2
4132		-	2
4123		s	2
4123658709E		c	
4132		s	2
3124		-	2
2143		-	2

a = 2.13s.15s.19s
b = 2s.13s.15s
c = 2.15s
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the first row of a slow six

218. 5007 Richard A G Inglis
(arr R C Kippin)

2314567890E	6	10	19
21346578E90		a	
3142	-		2
4123	-		2
4132	s		2
315264	-		3
513462	-		-
5132648709E		b	
314265	-		3
4123	-		2
2134	-		2
213465879E0		c	
3142	-		2
4123	-		2
4132	s		2
3124	-		2
2143	-		2
21436587E90		s	
2143658790E		c	
4132658709	-	s	2
3124	-		2
2143	-		2

a = 1.5.7.8.10.11.13s.15s.16 (20)
b = 2.6s.13s.15s.19
c = 10s.13s.22

219. 5007 Richard A G Inglis

2314567890E		1	6	19
21546378E90			a	
214365				2
4132			-	2
3124			-	2
3142			s	2
4123			-	2
2134			-	2
2153648709E			b	
214365			A	
4132658790		s	-	2
3124			-	2
21436587E90		-	-	2
4132			-	2
312465879E		s	-	2
2143			-	2
2143658709E		-		

A

a = 1.5.7.8.10.11.13s.15.16.17 (20)
b = 2.13s.15s.19

220. 5007 Richard A G Inglis

2314567890E	6	10	19	
21346578E90		a		
3142		-	2	
4123		-	2	
4132		s	2	A
3124		-	2	
2143		-	2	
2153648709E	2.13s.		15s.	19s
5132		-	2	
412365		2	2	
2134		-	2	
213465879E0	10s.		13s.	22
2143		A		
21436587E90		s		
2143658790E	10s.		13s.	22
4132658709	-	s	2	
3124		-	2	
2143		-	2	

a = 1.5.7.8.10.11.13s.15s.16 (20)

221. 5007 Stephen J Ivin

2314567890E	1	6	7	18	19	
31245678E90			a			
326451				2	-	
243156			-	-	-	
2143				-		
4123		-			s	
426351				2	-	A
234156			-	-	-	
2134				-		
316452		-				
4135628709E			b			
412365					-	
2134			A			
512463		2				
513462		s				
3124657890E			c			
32546178E90	-			2	-	
213465			B			
512463		2				
513462		s				
3124658709E			d			
2143			A			

a = 1s.2.6.11s.15.16.19.20
b = 2.6.9s.13.14.15.16.18.19
c = 3.6.13.14.16.17.18.19 (20)
d = 1.6.13s.15s.22

222. 5295 Stephen J Ivin

2314567890E 1 7 18 19										
31245678E90					a					
326451					2	-				
243156			-		-	-	A			
2143					-					
213465					b					
3142					A					B
3124658790E					c					
32546187E90	-				2	-				
243165			-		-	-				
2143					-					
2134658709E					d					
3142					A					
21345678E90					e					
2143658709E					B					

a = 1s.2.6.11s.15.16.19.20
b = 3s.8.9.10s.12s.18.21s
c = 9.10.13s.15s.18.22
d = 2.9s.15s.18
e = 2.4s.7.12.13.15.16.17.18.22.23 (24)
For 5031, call 6.19.19 for one A

2315. 5005 Henry Johnson

```
 1234567890E  5  6 19
 ____________________
 416253879E0     a
 412356             2
 214653       3  -  -
 413526       -     -
 214536       2
 ____________________
 415623       -     2
 513246       -     -
 314256       -     3
 415236       -
 ____________________
 516342       -     -
  516342879E0
  1352674E809
  13275E60498
  371E2059684
  37E01928546
  7039E814265*
  709834E6152
  08749635E21
  0846759231E
  860542719E3
  8652014E739
  62815E03497
  621E8359074
  2E631987540
  2E396714805
  E9273460158
  E9742035681
  94E07528316
  9405E871263
- 459801E2763
  45819206E37
  5142869307E
  512643879E0
 512643             -
 213456       -     -
 512436       2
 ____________________
 216354       -     -
 614352          -  3
 415362       -     3
  415362879E0
  1342576E809
  13274E50698
  371E2049586
  37E01928465
- 7039E814265*
- 709834E2165
  08749236E51
  0842769531E
  820645719E3
  8265014E739
  25816E03497
  251E8369074
  5E231987640
  5E392714806
  E9573420168
  E9745036281
  94E07658312
  9406E871523
  469801E2735
  46819203E57
  6142839507E
  612345879E0
 612345       -  -
 215463       -     -
 513462          -  3
 312465          -  3
 2143            -  2
 2143658709E  1
 ____________________
a = 2s.6.8.10.12.13.16.17.18.20 (20)
Start from rounds as the last row of a quick six
6 repeated rows
Rows 4321 and 7175 are both  730E9182456
Rounds occurs after 11615 changes
```

223. 5007 Henry Johnson

2314567890E 6 19

41526378E90   a
5124   - 2

213465   - 3 | A
3142   - 2 | A
4123   - 2 |

412563   s -
213564   - 3
314562   - 3
4153   - 2
4152638709E   b
412365   2
2134   - 2
315462   - 3
513264   - -
514263   s 3
214365   A

a = 1.5.7.8.10.11.13.15.16.17 (20)
b = 2.5.6.13.14.15s.19

4630. 5076 Henry Johnson

```
2314567890E
──────────
41236578E90  1.5.7.8.10.11.13.15.16 (20)
642315         a
3246           b
──────────
134625         a
6431           b
──────────
263145         a
1362           b
──────────
416235         a
2614           b
──────────
321465         a
1432         5.6.18
2341           b
──────────
624135         a
1426           b
──────────
312645         a
6213           b
──────────
461325         a
3164           b
──────────
236415         a
4632           b
──────────
213465780E9  1.8.10.11.13.15.17 (20)
3125647890E  1.6.19
──────────
```

3-part

a = 2.4.7.9.11 (11)

b = 1.3.5.8.10 (11)

composed 1887 rung 1895

1952. 5125 Henry Johnson

1234567890E	1	6	19
41236578E90		a	
2145637890E	2	-	-
51426387E90		b	
512364			2
2135		-	2
314562		-	3
412563		-	3
214365		-	-
215364		s	3
5132		-	2
314265		-	3
415263		-	3
514362		-	-
5142638709E		c	
512364			2
2135		-	2
314562		-	3
412563		-	3
214365		-	-

a = 1.5.7.8.10.11.13.15 (20)
b = 2.10.12.13.16.17.19.20 (20)
c = 2.5.6.14.15.19
Start from rounds as the last row of a quick six

224. 5005 John R Ketteringham

(No 113)

1234567890E	1	6	7	18	19	
34125678E90	-	-		-	-	
4312			s			
1243		-		-	-	
2143			s			
4321		-		-	-	
3421			s			
412365			a			
1423			s			
2314		-		-	-	
3214			s			
1432		-		-	-	A
4132			s			
3241		-		-	-	
2341			s			
43216587			b			
2143			A			
4123657809E			c			
2341			A			
43216587			b			
2143			A			

a = 5s.7.8.10.11.13.14.15.17 (20)
b = 2s.6.13s.15s.19s
c = 2.6.13s.15s.19s

Start from rounds as the last row of a quick six
For 5125 (arr S M Alford) insert 5s.12.14.15.16.17.18.19 1.5s in 2nd course

225. 5005 John R Ketteringham
(No 32)

```
1234567890E  6  7 18 19
-------------------------
2134567809E  1s.6.7.19s
3421           -   -  -
4321           -  -    s
2143           -   -  -
1243           -  -    s
4312           -   -  -
43125687     2s.13s.15s
-------------------------
3412           -  -    s |
1234           -   -  - |
2134           -  -    s |
3421           -   -  - |A
4321           -  -    s |
2143           -   -  - |
1243           -  -    s |
-------------------------
12435678E90  2.13s.15s
4312              A
214365       5.7.8.10.11.13.15.16 (20)
4321              A
4321658709E  2.13s.15s
2143              A
-------------------------
```

Start from rounds as the last row of a quick six

226. 5007 John R Ketteringham

(No 140)

2314567890E	6	7	9	16	18	19	
21465378E90				a			
213456						-	
3142		-				2	
4123		-				2	
412365				b			
3412			s	s	s	-	
2341			s	s	s	-	
1234			s	s	s	-	
3214		s	-		s		s	A
4321			s	s	s	-	
1432			s	s	s	-	
2143			s	s	s	-	
41236587				c			
2143				A			
4123657809E				d			
2143				A			
41236587				c			
2143				A			

a = 1.3.4.8s.9.11.12.17.20.21
b = 5s.7.8.10.11.13s.15s.17 (20)
c = 2s.6.13s.15s.19s
d = 2.6.13s.15s.19s

227. 5017 John R Ketteringham

(No 27)

1234567890E	1	5	6	18	19	
1234568709E			a			
1432				s		
3214			-	-	-	
3412				s		
4321		7s.	9s.	18		A
4123				s		
2341			-	-	-	
2143				s		
13652478E90			b			
653214		-		-		
324165		-		-	s	
2314			A			
345621		5.7.	18			
564231		-		-		
421356		-		-	s	
2431			A			
416523879E0			c			
6512438709E	-	-		-		
123465		-		-	s	
2143			A			

a = 1.2.6s.9s.13s.15s.18.19

b = 2.5.7.13s.15s.18

c = 1.2.5.7.13s.15s.18

Start from rounds as the last row of a quick six

228. 5050 John R Ketteringham

(No 123)

2314567890E	5	6	19
3142567809E		a	
4123		-	2
2134		-	2
2143		s	2
4132		-	2
3124		-	2
31265487E90		b	
314256			-
3124		A	
31265478		c	
314256			-
3124		A	
513426	2		
3124567890E		d	

A

a = 1s.3.9.12.13.14.16s.17.18.19.22.27 (30)
b = 2.6s.13s.15s.19
c = 2s.6s.13s.15s.19
d = 5.12.14.15.16.17.18.19 (20)

229. 5103 John R Ketteringham

(No 36)

2314567890E	5	6	19	
2134		a		
3142	3	-	2	
4123	3	-	2	
41256378E90		b		
413265			-	
3124		-	2	
2143		-	2	A
2134		s	2	
3142		-	2	
4123		-	2	
4126538709E		c		
412356		A		
412563		d		
413265			-	
3124		-	2	
2143		-	2	

a = 6.7.8.10s.12.13.15s.16.18s (20)
b = 1.5s.7.8.9s.10.11.13s.15s.17 (20)
c = 2.5s.7.8.9.10.13s.17.18s.20s (20)
d = 5s.7.8.9s.10.11.13s.15s.17 (20)

230. 5113 John R Ketteringham

(No 31)

1234567890E	6	7	9	18	19	
4231657809E			a			
3142	-			-	-	
3241				s		
2314		s	s	-		A
2413				s		
1324	-			-	-	
1423				s		
342156			b			
31245687			c			
4312			A			
12435678E90			d			
1342				s		
2134			A			
432165			e			
4123				s		
3412			A			
1234658709E			d			
1432				s		
2143			A			

a = 1s.7.8.10.11.13.15s.17s (20)
b = 5s.7.8.10.11.13.15s.17 (20)
c = 2s.13s.15s.18s
d = 2.6.13s.15s.18.19
e = 5.7.8.10.11.13.15.16 (20)
Start from rounds as the last row of a quick six

231. 5127 John R Ketteringham

(No 35)

2314567890E	5	6	19	
2134		a		
3142	3	-	2	
4123	3	-	2	
21465378E90		b		
213456			-	
3142		-	2	
4123		-	2	A
4132		s	2	
3124		-	2	
2143		-	2	
214563		c		
214365		A		
4125638709E		d		
413265			-	
3124		-	2	
2143		-	2	

a = 6.7.8.10s.12.13.15s.16.18s (20)
b = 1s.2.6.15s.19
c = 5s.7.8.9s.10.11.13s.15s.17 (20)
d = 2.6.13s.15s.19

232. 5129 John R Ketteringham

(No 30)

3124567890E	5	6	7	9	18	19	
3125647809E				a			
3521					s		
2135		-			-	-	
2531					s		
52136487				b			
132654	-				-		
2316		-				s	
342156			-			-	
3124					s		A
2431		-			-	-	
2134					s		
1243			s	s	-		
1342					s		
4213		-			-	-	
4312					s		
12435678E90				c			
2134				A			
432165				d			
3412				A			
1234658709E				c			
2143				A			

a = 1s.5s.7.8.10.11.13s.15s.17s (20)
b = 2s.7s.9s.13s.15s.18
c = 2.6.13s.15s.18.19
d = 5.7.8.10.11.13.15.16 (20)
Start from rounds as the second row of a quick six

233. 5185 John R Ketteringham

(No 34)

1234567890E	6	7	19	
23415678E90		a		
3412	-	s	2	
4321	-	-	2	
3214	-	s	2	
2143	-	s	2	
214365		b		
1432	-	s	2	
4321	-	s	2	
3214	-	s	2	
2341	-	-	2	A
3412	-	s	2	
4123	-	s	2	
1234	-	s	2	
1234658709E	2.13s.15s			
2143		A		

a = 1.3.9.12.13.14.16s.17.18.19.22.27 (30)

b = 5s.7.8.10.11.13s.15s.17 (20)

Start from rounds as the last row of a quick six

234. 5269 John R Ketteringham

(No 107)

1234567890E	6	19	
41236578E90		a	
2134	-	2	A
3142	-	2	
4132	-	s	
3124	-	2	
2143	-	2	
41236587		b	
2143		A	
4123657809E		c	
2143		A	
41236587		b	
2143		A	

a = 1.5.7.8.10.11.13.15 (20)
b = 2s.6.13s.15s.19s
c = 2.6.13s.15s.19s
Start from rounds as the last row of a quick six

6195. 5007 Robert C Kippin

2314567890E	1	6	19	
415362		a		
41326578E90	-		2	
3124		-	2	
2143		-	2	
2153648790E		b		
21436587E90	-		s	
21537486		c		
214375			s	A
2153748609E		d		
214375			s	
41256387		e		
413265			-	
315264		-	3	
314265		s		
4152637890E		f		
2143658709E		A		

a = 5.7.8.10.11.13.15s.16.17 (20)
b = 10s.13s.15s.19s.22
c = 3s.12.19s
d = 2.15s.19s
e = 3s.6.12.19
f = 6.10s.13s.15s.22s

235. 5014 Robert C Kippin

2314567890E	5	6	14	19	
41235678E90			a		
2134		-		2	A
316452		-		3	
314265	-		s	2	
4123		-		2	
2134		-		2	
2153648709E			b		
412365		2		3	
2134		-		2	
3124		-		s	
315264				-	
413265		2		3	
41326578E90			c		
312456			A		
3124567890E			d		

a = 1.6.9s.11s.16s.19.20
b = 2.13s.15s.19
c = 2.13s.15s
d = 10s.13s.22

236. 5016 Robert C Kippin
(with assistance from APS)

1234567890E	6	7	18	19	
34125678E90		a			
1234	-		-	-	
2134		s			
3421	-		-	-	
4321		s			A
2143	-		-	-	
1243		s			
4312	-		-	-	
13524679E80		b			
531246E9780		c			
53126478E90		d			
314265	-	s			
1342		A			
3142658709E		e			
1342		A			
315264	1s.	6.	7.	10s	
1352		s			
13427586	3.	4.	12.	17s.	19s
31527486E90	2.	6.	7.	15s	
13426587	3s.	6.	7.	12	
1342657890E	10s.	13s.	15s.	22	
1234	1s.	10s.	18		
123456E9780	3.	8s.	10s.	12s.	15s. 21s. 22
12345679E80	3.	12s			
1234567E098	1.	8s.	21		
1234567890E	2s.	10s.	15s.	22s	

a = 1s.2.6.15s.18.19
b = 5.8s.21
c = 3.6.12s.19s
d = 3.8s.10s.12s.21
e = 2.7s.13s.15s
Start from rounds as the last row of a quick six

5270. 5019 Robert C Kippin

2314567890E	1	6	19	
21435678E90		a		
4132		-	2	
3124		-	2	A
3142		s	2	
4123		-	2	
2134		-	2	
12345679E80		b		
123456E9780		c		
2134658709E		d		
214563			2	
413562		-	3	
314265		-	-	
3124657890E		e		
21436578E90	-	-	2	
3142		A		
3124658790E		f		
3145628709	s		2	
412563		-	3	
214365		-	-	

a = 1.4s.9s.17
b = 7.8.21
c = 3.12s
d = 1.2.3.7.8.10s.12s.21
e = 9.10.13s.15s.18.22s
f = 9.10.13s.15s.18.22

237. 5019 Robert C Kippin

2314567890E	1	6	19	
31245678E90		a		
2143		-	2	A
4132		-	2	
3142		-	s	
4123		-	2	
2134		-	2	
12345679E80		b		
123456E9780		c		
2134658709E		d		
214563			2	
413562		-	3	
314265		-	-	
41326578E90		e		
3142		A		
315264			s	
13524679E80		f		
531246E9780		g		
3152648709E		h		
314562			-	
412563		-	3	
214365		-	-	

a = 1.6s.7.19s
b = 7.8.21
c = 3.12s
d = 1.2.3.7.8.10s.12s.21
e = 2.6.13s.15s.19s
f = 3s.7.8.10s.12s.21
g = 3.6.12s.19s
h = 1.2.3.4s.7.8.10s.12s.17.21

238. 5019 Robert C Kippin

2314567890E	6	19
21435678E90		a
4132	-	2
3124	-	2
3142	s	2
4123	-	2
2134	-	2
21345679E80		b
3124	-	s
312456E9780		c
2134	-	s
21346578E90		d
2143		A
4125638709E		e
413265		-
315264	-	3
314265	s	
4123	-	2
215364	-	3
214365	s	

a = 1.4s.9s.17
b = 8s.21
c = 3.12s
d = 3.8s.10s.12s.21
e = 2.6.13s.15s.19

239. 5019 Robert C Kippin

2314567890E	1	6	19
21435678E90		a	
4132		-	2
3124		-	2
3142		s	2
4123		-	2
2134		-	2
12345679E80	7.8.21		
123456E9780	3.12s		
2134658709E		b	
214563			2
413562		-	3
314265		-	-
3124657890E		c	
21436578E90	-	-	2
3142		A	
3124658790E		d	
3145628709	s		2
412563		-	3
214365		-	-

A

a = 1.4s.9s.17
b = 1.2.3.7.8.10s.12s.21
c = 9.10.13s.15s.18.22s
d = 9.10.13s.15s.18.22

240. 5019 Robert C Kippin

2314567890E	1	6	19	
21435678E90		a		
4132		-	2	
3124		-	2	
3142		s	2	A
4123		-	2	
2134		-	2	
12345679E80		b		
123456E9780		c		
2134658709E		d		
214563			2	
413562		-	3	
314265		-	-	
3124657890E		e		
21436578E90	-	-	2	
3142		A		
315246E9780		f		
3152648709E		g		
314562			-	
412563		-	3	
214365		-	-	

a = 1.4s.9s.17
b = 7.8.21
c = 3.12s
d = 1.2.3.7.8.10s.12s.21
e = 9.10.13s.15s.18.22s
f = 3.6s.8s.10s.12s.21
g = 1.2.3.8s.10s.12s.21

241. 5019 Robert C Kippin

2314567890E	3	6	9	12	18	19	
21435678E90				a			
4123		-				s	A
4132			s		-		
3142		-				s	
3124			s		-		
2134		-				s	
12345679E80				b			
123456E9780	-			s			
21346578E90				c			
2143				A			
21536487				d			
214365						s	B
21537486	s			-		s	
214375						s	
2153748609E				e			
214375						s	
41326587	s	-		-		2	
315264		-				3	
314265		s					
31526487E90				e			
2143658709E				B			

a = 1.4s.9s.17
b = 7.8.21
c = 3.7.8.10s.12s.21
d = 2s.13s.15s.19s
e = 2.15s.19s

242. 5040 Robert C Kippin

2314567890E	1	5	6	9	14	18	19
14235687E09				a			
1432				s		-	
146253			s				
143265		-			s		s
1423				s		-	
1423567809E				b			
1463527890E	s		s				
146253			s				-
143256							s

4-part
a = 2.6.13s.15s.18.19
b = 3.6.7s.9s.12.23.26.28.31.33 (34)

243. 5074 Robert C Kippin

2314567890E	1	6	7	9	18	19	
21436587				a			
12536487E90	-	-	-				
124365		s					
215364		-	-				
214365		s					
41256378				b			
413265						-	
3124		-				2	A
2143		-				2	
4125638709E				c			
413265						-	
315264		-				3	
314265		s					
4123		-				2	
215364		-				3	
214365		s					
31256478E90				d			
213465				A			
123456E9780				e			
12345679E80				f			
21345678E90				g			
2143				s	-		
4123		-				s	
4132				s	-		
3142		-				s	
3124				s	-		
3124567890E				z			

a = 1.3.6.12.23.26.28.31.33 (34)
b = 1.6.10s.13s.15s.19.22
c = 2.6.13s.15s.19
d = 1.6.9s.13s.15.16.18s.19.22
e = 3.7.8.10s.12s.21
f = 3.12s
g = 7.8.21
z = 12.14.15.16.17.18.19 (20)

244. 5075 Robert C Kippin
(and D E House)

2314567890E	1	6	19	
21435678E90		a		
4132		-	2	
3124		-	2	A
3142		s	2	
4123		-	2	
2134		-	2	
12345679E80		b		
123456E9780		c		
2134658709E		d		
214563			2	
413562		-	3	
314265		-	-	
3124657890E		e		
21436578E90	-	-	2	
3142		A		
3124658790E		f		
3145628709	s		2	
412563		-	3	
214365		-	-	

a = 1.6.10s.14.15.16.17s.21s.23s.25s.27s (31)
b = 7.8.21
c = 3.12s
d = 1.2.3.7.8.10s.12s.21
e = 9.10.13s.15s.18.22s
f = 9.10.13s.15s.18.22
Start from rounds as the second row of a slow six

245. 5350 Robert C Kippin

2314567890E	1	6	7	9	18	19	
21436587				a			
12536487E90	-	-	-				
124365		s					
215364		-	-				
214365		s					
41536278				b			
413265						2	A
3124		-				2	
2143		-				2	
4125638709E				c			
413265						-	
315264		-				3	
314265		s					
4123		-				2	
215364		-				3	
214365		s					
31546278E90				d			
213465				A			
123456E9780				e			
12345679E80				f			
21345678E90				g			
2143				s	-		
4123		-				s	
4132				s	-		
3142		-				s	
3124				s	-		
3124567890E				h			

a = 1.3.6.12.23.26.28.31.33 (34)
b = 1.6.10s.13s.15s.22
c = 2.6.13s.15s.19
d = 1.6.9s.13s.15.16.18s.22
e = 3.7.8.10s.12s.21
f = 3.12s
g = 7.8.21
h = 10s.13s.22

246. 8715 Robert C Kippin

2314567890E	6	19	
21345678E90		a	
3142	-	2	A
4123	-	2	
4132	s	2	
3124	-	2	
2143	-	2	
21345679E80		b	
2143		A	
213456E9780		c	
2143		A	
21346578E90		d	
2143		A	
21346587		e	
2143		A	
2134658709E		f	
2143		A	

a = 1.4s.17
b = 8.9.18.21
c = 3.9s.12s.18
d = 3.8s.9.10.12s.18.21
e = 2s.9s.13s.15s.18
f = 2.9s.15s.18

247. 5055 Robert W Lee

2314567890E	6	19	
13579E24680		a	
E0987654321		b	
21546378E90		c	
213564		-	
314562	-	3	
412563	-	3	
413562	s	3	A
312564	-	3	
214563	-	3	
214365	s	-	
2154638709E		d	
214365		A	

a = 5.s8.s11.14.s16.17.20 (20)
b = 1.2.4.5.7.s9.12.s14.16.18.24 (24)
c = 3.6.8.s9.18.21.s23.25 (28)
d = 2.s13.s15.19

248. 5007 Gabriel Lindoff

2314567890E 6 19

41526378E90 a

412365		2	
2134	-	2	
315462	-	3	
5143	-	2	A
512364	s	3	
214365	-	3	
415362	-	3	

2145638709E b
214365 A

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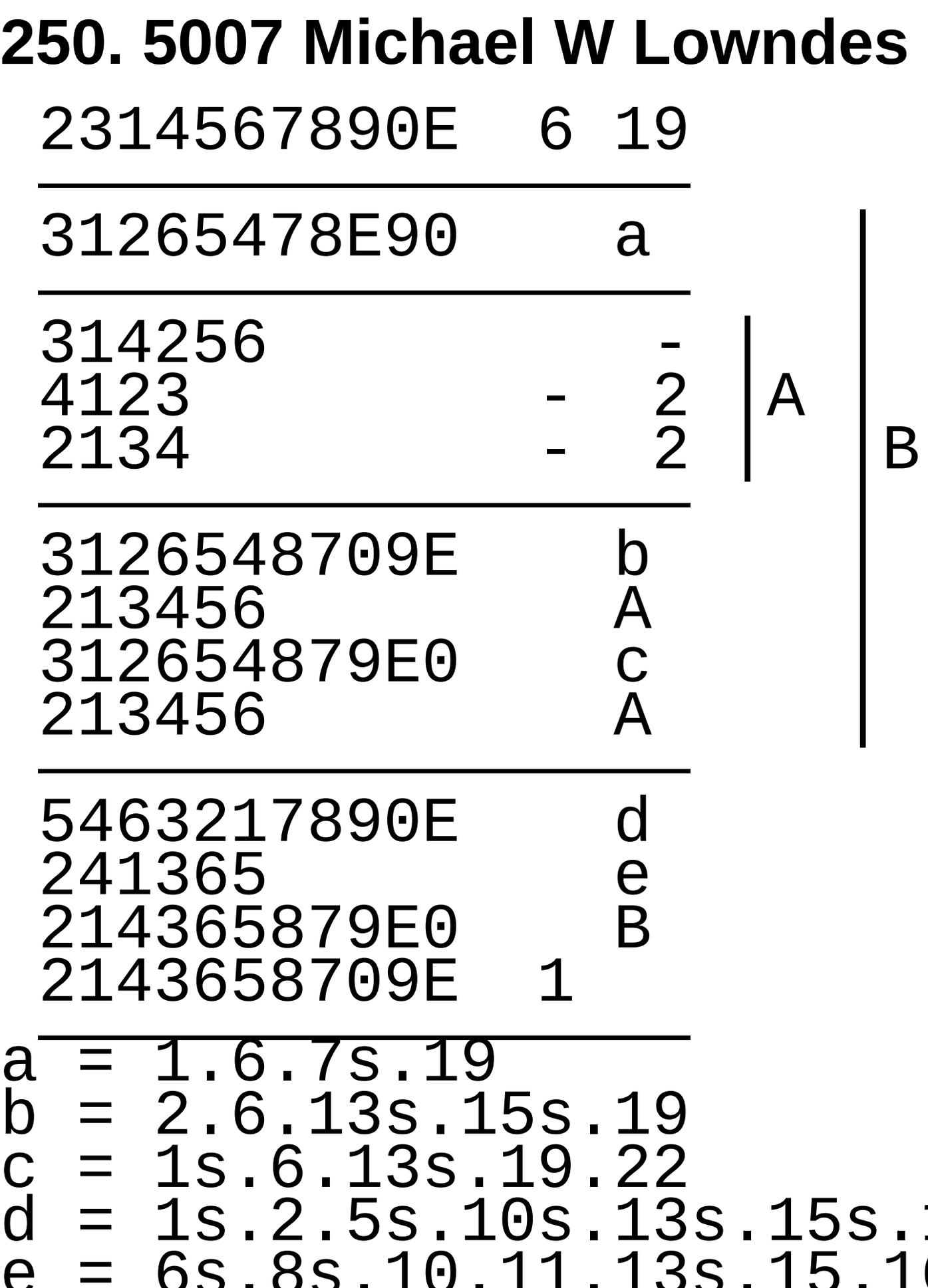
a = 1.5.7.8.10.11.13.15.16.17 (20)
b = 2s.3.7.12.13.15.16.19

249. 11111 Gabriel Lindoff

2314567890E	5	6	19	
41325678E90		a		
316254		-	3	A
614253		-	3	
4126		-	2	
213654		-	3	
213456		s	-	
316452		-	3	
6143		-	2	
415263	-	s	-	
215364		A		
215463		s	-	
415362		A		
2145638709E		b		
514362		A		
416253	-	s	-	
216354		A		
2136		s	2	
3162		-	2	
6123		-	2	
514263	14s.19			
214365		A		

a = 1.2.4.5.6.7.9.12.15.17.20.21.22.23.24 (25)
b = 2s.3.7.12.13.15.16.19
Start from rounds as the second row of a slow six

250. 5007 Michael W Lowndes



251. 5007 Fred G May

2314567890E	6	19	
41325687E90		a	
416352		-	
6134	-	2	
312456	-	3	
216453	-	3	
213456	s	3	
316452	-	3	
612453	-	3	
5132648709E		b	
314265	-	3	
4123	-	2	A
215364	-	3	
215463	s	-	
4125		A	
214365	-	-	

a = 1.6.7.8.10.12.13.16.18s (20)
b = 2.14.15.19

252. 5017 Fred G May

1234567890E	5	6	19	
21645378E90		a		
612354		-	-	
513264	-	-	2	
314265		-	3	
4123		-	2	A
2134		-	2	
2143		s	2	
4132		-	2	
315264		-	3	
5123		-	2	
6142538709E		b		
413265		A		
315264		-	3	
5123		-	2	
214365		-		

a = 1.4.5.14s.16.17.19s
b = 2.13s.14.15.19
Start from rounds as the last row of a quick six

253. 5007 John R Mayne

(No 1)

2314567890E	6	19
21435678E90	1.4s.9s.17	
4132	- 2	A
3142	- s	
3142568709E	2.13s.15s	
4123	- 2	
2134	- 2	
3124	- s	B
2143	- 2	
4132	- 2	
41235678E90	a	
3124	A	
314265	b	
4132	B	
4123658709E	a	
2143	B	

a = 2.9s.13s.15s.18

b = 5.7.8.10.11.13s.15s (20)

254. 5007 John R Mayne

(No 2)

2314567890E	6	19	
31245678E90		a	
2143	-	2	A
4123	-	s	
2134	-	2	
3142	-	2	
4132	-	s	
412365		b	
3142		A	
31426587		c	
2134		A	
2134658709E		d	
3142	-	2	
4123	-	2	
4132	s	2	
3124	-	2	
2143	-	2	

a = 1.4s.7s.17

b = 5.7.8.10.11.13s.15s (20)

c = 2s.13s.15s

d = 2.15s

255. 5007 John R Mayne
(No 3)

2314567890E	6 19
4123568709E	a
2143	- s
21435678E90	2.13s.15s
4123	- s
2134	- 2
3124	- s
3124568709E	2.13s.15s
4132	A
41325678E90	2.13s.15s
3142	- s
213465	b
3124	- s
31246587	2s.13s.15s
4132	A
41326578	2s.13s.15s
2143	A
21436587	2s.13s.15s
4123	- s
4123658709E	2.15s
2134	- 2
3142	- 2
4132	- s
3124	- 2
2143	- 2

a = 1.2.6.9s.13s.15.16.19s
b = 5.7.8.10.11.13.15s (20)

256. 5007 John R Mayne

2314567890E		6	19
31425678E90			a
4123	-		2
2143	-		s
4132	-		2
3124	-		2
2134	-		s
412365			b
2134			A
3142	-		2
31426587			c
4123	-		2
2134			A
2134658709E			d
3142	-		2
4123	-		2
4132	s		2
3124	-		2
2143	-		2

A

a = 1.4s.7s.9s.17
b = 5.7.8.10.11.13.15s (20)
c = 2s.13s.15s
d = 2.15s

257. 5007 John McDonald

2314567890E	1	5	6	19	
41235678E90			a		
2134			-	2	
3142			-	2	
3124			s	2	
2143			-	2	
416352			-	3	
413256780E9	-			2	
3124			-	2	
3142			s	2	
4123			-	2	A
2134			-	2	
2143			s	2	
2163548709E			b		
614352			-		
413265		-		2	
2143			A		

a = 1.5.6s.7.8.10.11.13.15.16 (20)
b = 1s.2.10s.13s.15s.19s

258. 5009 John McDonald

(No 1a)

2314567890E	1	7	9	18	
32415678E90	-	s	s	-	
2134		s		-	A
1423		s		-	
4312		s		-	
3421		s	s	-	
4132		s		-	
1243		s		-	
2314		s		-	

2314657890E		a
3241		A
324156E9780		b
315246		c
1352	s	
523416		d
123456	14s	
2134	s	
123456780E9		e
2143		A
3124658709E		f
1342		A

a = 1s.3s.8s.10s.12s.13s.21s.22
b = 1.4.5s.7.9.12.14.15.16.17.18 (18)
c = 5.9s.14s
d = 5.13s.18.22s
e = 2s.3.7s.8s.12s.13s.21
f = 1s.2.4s.7.10s.12.13.15.16.17.18.22.23 (24)

259. 5009 John McDonald

(No 1b)

2314567890E	1	7	9	18	
32415678E90	-	s	s	-	
2134		s		-	
1423		s		-	
4312		s		-	
3421		s	s	-	A
4132		s		-	
1243		s		-	
2314		s		-	

2314657890E		a
3241		A
324156E9780		b
315246		c
1352	s	
523416		d
123456	14s	
2134	s	
12345678E09		e
2143		A
3124658709E		f
1342		A

a = 1s.3s.8s.10s.12s.13s.21s.22
b = 1.4.5s.7.9.12.14.15.16.17.18 (18)
c = 5.9s.14s
d = 5.13s.18.22s
e = 3.7s.8s.12s.13s.21
f = 2.4s.7.10s.12.13.15.16.17.18.22.23 (24)

260. 5009 John McDonald
(No 2a)

2314567890E	5	7	9	14	16	18	
23148765				a			
3421		s				-	
4132		s				-	
1243		s				-	
2134		s	s			-	A
1423		s				-	
4312		s				-	
3241		s				-	
32415678E90				b			
2314				A			
231456E9780				c			
3241		s	s			-	
315246	-		s	s			
1352		s					
314256	-			s	s		
2134			s		s	-	
123456780E9				e			
2143				A			
3124658709E				f			
1342				A			

a = 1s.6s.10s.13.17s.19s.22s
b = 1.3.4.6s.12.17s
c = 4.5.6.7.9.12.14.15.16.17.18 (18)
e = 2s.3.7s.8s.12s.13s.21
f = 1s.2.4s.7.10s.12.13.15.16.17.18.22.23 (24)

261. 5009 John McDonald
(No 2b)

2314567890E	5	7	9	14	16	18	
23148765				a			
3421		s				-	
4132		s				-	
1243		s				-	
2134		s	s			-	A
1423		s				-	
4312		s				-	
3241		s				-	
32415678E90				b			
2314				A			
231456E9780				c			
3241		s	s			-	
315246	-		s	s			
1352		s					
314256	-			s	s		
2134			s		s	-	
12345678E09				e			
2143				A			
3124658709E				f			
1342				A			

a = 1s.6s.10s.13.17s.19s.22s
b = 1.3.4.6s.12.17s
c = 4.5.6.7.9.12.14.15.16.17.18 (18)
e = 3.7s.8s.12s.13s.21
f = 2.4s.7.10s.12.13.15.16.17.18.22.23 (24)

262. 5129 John McDonald
(No 3)

2314567890E	1	7	9	14	18	
32415678E90	-	s	s		-	
2134		s			-	A
1423		s			-	
4312		s			-	
3421		s	s		-	
4132		s			-	
1243		s			-	
2314		s			-	
2314657890E			a			
3241			A			
324156E9780			b			
2314		s	s		-	
3421		s			-	
513246		s		s	-	
1532		s				
413256780E9			c			
1423			A			
43126578E09			d			
3241		s			-	
3124658709E			e			
1342			A			

a = 1s.3s.8s.10s.12s.13s.21s.22
b = 1.4.5s.7.9.12.14.15.16.17.18 (18)
c = 2s.3.7s.8s.12s.13s.14s.21
d = 1s.3s.7s.8s.10s.12s.18.21s
e = 2.10s.13s.15s.18

263. 5019 Wilfrid F Moreton

2314567890E	6	14	19
21345678E90		a	
3142	-		2
4123	-		2
4132	9s.18		
316254	-		3
513462	-	s	-
5132648709E		b	
512463			2
215364	-		-
21456378E90		c	

213465			-	
3142	-		2	A
4123	-		2	

2145638709E		d
412365		A
41256378E90		b
214365		A
4125638709E		d
214365		A

a = 1.4s.17
b = 2.6s.13s.15s.19
c = 2.13s.15s.19
d = 2.6.13s.15s.19

15598 5007 Donald F Morrison
(No,19)

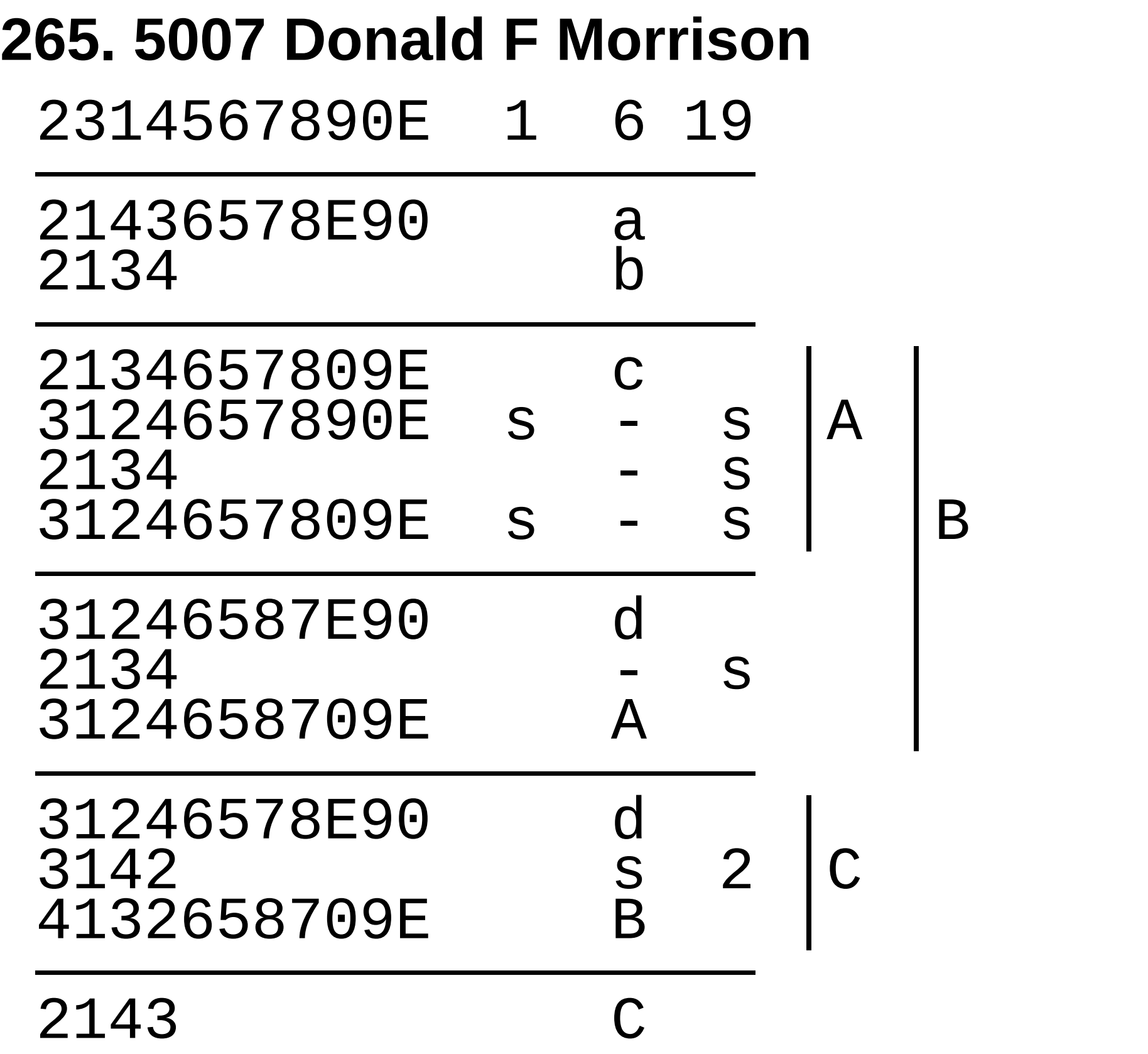
2314567890E	6	9	14	18	19		
41532678E90			a				
214356	-		s		s		
4123	-				s	A	B
4132		s		-			
3142	-				s		
3124		s		-			
2134	-				s		
2134567809E			b				
2143			A				
41632578E90			c				
214365	-		s		s		
2143657809E			B				
21436587E90			d				
2143658709E			B				

a = 1.5.10.12.13.s15.s17.19 (20)
b = 2.15s
c = 2.5.15s.19s
d = 2.13s.15s

264. 5007 Donald F Morrison

```
 2314567890E  1   6 10 19
-------------------------
 21536487         a
 213465879E0  -     s   2
-------------------------
 3142             -       2 |
 4123             -       2 |
 4132             s       2 |A
 3124             -       2 |
 2143             -       2 |
-------------------------
 21346587E9       s   s   2
 2143               A
 2134658709E  2   s   s   2
 2143               A
-------------------------
a = s2.5.s8.9.10.s13.s17.18.s20 (20)
```

265. 5007 Donald F Morrison



a = 1.5.7.8.10.11.s13.15.16 (20)
b = s9.18
c = 2.s15
d = 2.13s.15s

266. 5007 Donald F Morrison

2314567890E		1	6	19
21346578E90			a	
3142			-	2
4123			-	2
2143			-	s
4132			-	2
3124			-	2
3124657809E			b	
2134657890E		s	-	s
3124			-	s
2143657809		s	-	2
2143657890E		s		
21436587E90			c	
4132			-	2
4123			A	
4123658709E			b	
2143658790E		s	-	s
4123			-	s
2134658709		s	-	2
2143			A	

A

a = 1.5.7.8.s10.s13.s15.16.s18 (20)
b = 2.s15
c = 1s.2.13s.15s

267. 5007 Donald F Morrison

2314567890E	1	6	19	
413265		a		
3124		-	2	
2143		-	2	
412563		-	-	
41326578E90	-		-	
3142		-	s	
4123		-	2	
2134		-	2	A
3124		-	s	
2143		-	2	
2143657809E		b		
4132		-	2	
3124		-	2	
31246587E90		c		
4132		A		
4132658709E		b		
2143		A		

a = 5.7.8.10.11.13.s15.16 (20)
b = 2.15s
c = 2.13s.15s

268. 5007 Donald F Morrison

2314567890E		1	6	19
214365			a	
21436587			b	
4132			-	2
4123			s	2
2134			-	2
31426587E90		-	-	2
4123			-	2
4132			s	2
3124			-	2
2143			-	2
413265879E		s	-	2
2134			A	
314265709E		-	-	2
2143			A	

A

a = 5.7.8.10.11.s13.15.16 (20)

b = 2s.13s.15s

269. 5009 Donald F Morrison

2314567890E	1	18	
142365		a	
1342		-	A
1243		s	
1432		2	
1234		s	
14236578E90	-	-	
1234		A	
123465789E	s	3	
1423658790E		b	
1234		A	
14236587E90	-	-	
1234		A	
142365879E0	s	-	
1234		A	
1423658709E	-	-	
1324		s	
1243		2	
1342		s	

a = 5.s7.8.9.10.11.13.15.16 (20)
b = 1.s10.s13.s15.18.s22

270. 5009 Donald F Morrison

2314567890E		1	18
132465		a	
1243			2
12436578E90	-		3
124365789E0	s		
1342657809E	-		s
1342657890	s		3
13426578E90	-		3
1234658709E		b	
1342			2
1243658790E	s		s
1432			2
14326587E90	-		3
14326587 9E	s		3
1432658709E	-		3
134265879E0		A	
1342658709E	-		

a = 5.s8.10.11.s13.14.15.16 (20)
b = 1.s13.s15.18.22

271. 5033 Donald F Morrison

2314567890E	1	9	16	18	
43215678E90	-	s	s	-	
3421			s		
1432		s	s	-	
4132			s		
2143		s	s	-	A
1243			s		
3214		s	s	-	
2314			s		
1E234567890			a		
E123			s		B
E0123456789			b		
980E1234567			2B		
890E			s		
231456E9780			c		
0E987654321			d		
45321E09876			5B		
5432			s		
2314658709E			e		
1342			A		

a = 1s.3s.6s.7.9.10.12.15.16.18s.20s (24)
b = 3.4.9.10.12s.13.15.16.19s.20.22s (24)
c = 2.4.5s.8.9s.12.13.18.20.22 (24)
d = 1.2.5s.7.9.11.12.13.14s.17.19.20s.22s (24)
e = 3.4.5.s6.9.10.12.14.s17.19.21.23 (24)

272. 5038 Donald F Morrison

2314567890E	1	5	6	7	9	18	19	
35261487E90				a				
364512						-	-	A
314652				b				
312456							-	
134256879E0	s			s	s	-		B
352614		-	-	s	s	-		
312456				A				
1342568709E	-			s	s	-		C
352614		-	-	s	s	-		
312456				A				
3124568790E				B				
13425678E90				c				
352614		-	-	s	s	-		
312456				A				
3124567890E				B				
3124567809E				C				
3124567890E				B				

a = 1.6.13.14.15.16.19.s22
b = 8.s10.11.s13.14.15.17 (20)
c = 1.s4.s6.7.8.10.s12.13.14.16 (20)

273. 5050 Donald F Morrison

```
2314567890E
___________
23145768     s1.s4.s6.9.10.17.18
23415768E90  1.s9.18
3241         s7
23517486     7.8.s10.13.14.16.s18 (20)
2143657809E  2.5.6.s9.13.15
21436587E90  2.s13.s15
___________
12346578     2.3.s7.s9.12.13.s15.18          |
2143         s7.s9.18                        |
654321       s5.8.s21                        |
6543218709E  2.s13.s15                       |
241365       5.6.8.s21                       |
_____________                                |B
4321         s7.18 |                         |
3142         s7.18 |A                        |
1234         s7.18 |                         |
_____________                                |
24135678E90  2.s4.5.7.s9.10.13.14.16.20 (20) |
1234           A                             |
_____________
E9078563412  2.3.4.6.10.13.s15.17.18.s20.21.22
531246E9780  4.7.11.12.13.15.s19.s21.23.24 (24)
123456       5.18
1234567809E  2.s8.21
21436587       B
13579E24680  1.15.s17.s23.24 (24)
97E531       7.s14.18
3125467890E  1.2.3.5.s7.s9.10.s14.15.17.18.19.23.25.26.27.28.29 (30)
312456       3.4.7.8.s11.12.16.17.20.21
_____________
```

Contains, among other things, all ten near misses, Queens, Kings, single and double Whittingtons, tittums, and backrounds, and all the 56 tittums and 65 handstroke course ends, a few other entertaining bits,

274. 5081 Donald F Morrison

2314567890E	1	5	6	7	9	18	19	
13425678E90				a				
352614		-	-	s	s	-		
352614789E0	s							
35261478E09	2							
352614780E9	s							
36451278E90	2					-	-	A
314652				b				
314652789E0	s							
31465278E09	2							
314652780E9	s							
31245678E90	2						-	
1324				s				
13425687				c				
3124				A				
3124658709E				d				
1432				s		-		
4213				s		-		
2341				s		-		
3214				s	s	-		
2431				s		-		
4123				s		-		
1342				s		-		

a = 1.6.8.10.11.12.13.14.15 (20)
b = 8.s10.11.s13.14.15.17 (20)
c = s4.s6.s8.10.s12.13.14.16 (20)
d = 2.3.4.s5.7.9.s11.12.13.14.15.16.18 (18)

275. 5093 Donald F Morrison

2314567890E	1	5	6	7	9	18	19	
31425678E90				a				
1342				s				
352614		-	-	s	s	-		
364512	3					-	-	A
314652				b				
312456	3						-	
1342567809E				c				
3124				A				
13425687E90				d				
3124				A				
1342568709E				c				
3124				A				
314265				e				
1342				s				

a = 1.s6.7.8.10.11.12.13.14.15 (20)
b = 8.s10.11.s13.14.15.17 (20)
c = 2.s7.s9.s15.18
d = 2.s7.s9.s13.s15.18
e = 3.4.s8.9.10.s12.s17.18.s21

for 5045:
(c) = 2.s4.6.7.10.s12.s14.16.20 (20)
(d) = 2.s4.6.7.10.s12.13.14.16.20 (20)
(e) = 5.7.8.10.11.s13.s15 (20)

276. 5105 Donald F Morrison

2314567890E	1	7	9	18	
24135678E90	-		s		
4231		s	s	-	
4132			s		
1423		s	s	-	
1324			s		A
3142		s	s	-	
3241			s		
2314		s	s	-	
32E19078564			a		
31E2			s		
210E8967453			b		
2E01			s		B
1E907856342			b		
109E			s		
E0896745231			b		
E980			s		
12436587E90			c		
1342			A		
901E3254768			d		
1243658709E			B		
1342			A		

a = 1.2.5.6s.9.10.11.13s.18s (18)
b = 2.8.9.12.13.15.19s.21.23 (24)
c = 4.6s.8.9s.12s.13.17.18s.20.22.23.25s (26)
d = 3s.7s.9.13.18.19.20.21.22 (24)

277. 6329 Donald F Morrison

2314567890E	2	13	15	18	
13425678E90			a		
1423				2	
1324				s	
1243				2	
1342567809E	-		s	s	
1423				2	
1324				s	
1243				2	
13425687E90	-	s	s	s	A
1423				2	
1324				s	
1243				2	
1342568709E	-		s	s	
1423				2	
1324				s	
1243				2	
12436578E90			b		
1342658709E			A		

a = 1.6.s8.10.11.12.13.14.15.s16 (20)
b = 2.3s.8s.10s.12.13.15s.21s
Omit two blocks of 6 for 5009

278. 5007 Paul N Mounsey

2314567890E	6 19	
23615478E90	1s.2.15s.19	
234156	5.6.14s	
326154	6.7	
312456	5.6.14s.18	
2143	- 2	
4123	- s	
512364	8s.10.11.13s.15.16.17 (20)	
2135	- 2	
3152	- 2	
3251	18s	
324165	1.2.5.6.10s.14.15	
4132658709E	2.6.13s.15s.18.19	A
415362	-	
213564	2 2	
3152	- 2	
314265	s	
4152637890E	2s.6.10s.13s.15s	
51326478E90	1.6	
2143658709E	A	

279. 5007 Paul N Mounsey

2314567890E	6	19	
21346578E90		a	
3142	-	2	
4132	-	s	
513264	2	s	
312456		b	
2143	-	2	
4123	-	s	A
416352		s	
4123658709E		c	
415362		s	
213564	2	2	
3152	-	2	
314265		s	
31246578E90		d	
2143658709E		A	

a = 1.5.7.8.10.11.13s.15s.16 (20)
b = 5s.6.9s.18
c = 2.5.13s.14.15.19s
d = 2.9s.13s.15s.18

280. 5009 Paul N Mounsey

```
2314567890E  6  7  9 18 19
23615478E90  1s.2.15s.19
325164       5.6s.14s.16s.19s
3152                 s
324165               -  -
2314658709E  2.7s.9s.13s.15s.18
1423         -         -  -
4132            s  s   -
3241         -         -  -
324165879E0  1s.13s.22
325164       1s.6s.10s
3152               s
1352748609E  1.3.4.12.16.17
134275       s
13527486E90  2.15s.19s
134275                  s
123475869E0  10s.18
12536487     3.4.12.17s.19
214365       1s.6.7.10s
1243            s
2143657890E  1.3.7s.13.14.16.17.18.19 (20)
2314         1s.10s.18
32146578E90  1.7s
2341            s  s  -
215364879E0        A
2351748609E  1.3.4.12.17.18
213475869E0        B
13526487     3.4.12.16.17s.19
314265       1s.6.7.10s
1342            s
1342658709E  1
```

281. 5019 Paul N Mounsey

```
2314567890E  1  6 18 19
-------------------------
23615478E90  -     3  -
2143658790E  5.6s.9.10.13s.14.15.22
215463                 -
2134658709E  s         s
3124              -    s
315264                 -
314265                 s
3124658790E  9.10.18
31526487E90  -         -
314265                 s
315462                 -
312465                 s
2134         1s.6.10s.19s
215364                 -
214365                 s
2153748690E  10s.13.19s.22
2143758609E  s         s
215473                 -
213475                 s
3124              -    s
315274                 -
314275                 s
3152748690E  10s.19s
31427586E90  -         s
315472                 -
312475                 s
2134              -    s
215374                 -
214375                 s
4123758609E  2.6.15s.19s
41526387     3.4.12.17s.19
413265                 s
415362                 -
412365                 s
215364            -
214365            s
```

282. 5019 Paul N Mounsey

```
2314567890E  1  6  7 10 18 19
─────────────────────────────
23615478E90  1s.2.15s.19
3261         5.6.14s.16s.19s
234165879E0  5.6s.10s.13.14.15.16.22s
325164       s  -  -  s
3152         9s
134265       1.2.6.7.10s.15s
─────────────────────────────
1243         1s.9.10          |A
215364          -  -          |
─────────────────────────────
2351         1.2.9.10.15s
324165       s  -  -  s
3142         9s
4231658709E  -  -        -  -
415263                   -  -
─────────────────────────────
145362          -  -        -  |
132465                   -  -  |
2413            -        -  -  |B
235461                   -  -  |
325164          -  -        -  |
314265       s        s  -  -  |
─────────────────────────────
3251647890E  1s.13s.15s.18.19.22s
31426578E90  -           -  -
3214                     -
1234            -           s
125364                      -
134265                   -  -
435261          -
421365          s        s
4213658790E  10s.13s.15s.22
4352618709E  s           -  -
134265             B
135264879E0  1s.6s.13s.22
214365               A
2143658709E  -
```

283. 5019 Paul N Mounsey

2314567890E	6	19	
21345678E90		a	
3124	-	s	A
2143	-	2	
4123	-	s	
416352		s	
4123658709E		b	
415362		s	B
213564	2	2	
3152	-	2	
314265		s	
41326578E90		c	
2143		B	
4123	-	s	
3142		B	
4132658709E		c	
2143		B	

a = 1.4s.17
b = 2.5.13s.14.15.19s
c = 2.6.13s.15s.19s

284. 5021 Paul N Mounsey

2314567890E	6	7	9	16	18	19	
43215678E90				a			
4132					-		
1324				s	2		
4231			s	s	2		
2314				s	2		
326154		s				-	
3142658709E				b			
325164					-	-	
235461	-	-				-	
241365					-	-	
1324	-				-	-	A
145362					-	-	
415263	-	-				-	
423165					-	-	
31426578E90				c			
1342		s					
4213	-				-	-	
2413		s					
1324	-				-	-	
3124		s					
2431	-				-	-	
4231		s					
23516487				d			
234165	s						
135264	s		s	s	s		
134265	s						
435261	-						
4213658709E				e			
1342				A			

a = 1s.2.9s.15.16.18
b = 2.5.13s.14.15.18.19
c = 2.6.13s.15s.18.19
d = 2s.6.13s.15.16
e = 2.15s.18.19

285. 5021 Paul N Mounsey

2314567890E	6	7	9	16	18	19
43215678E90				a		
4132					-	
1324				s	2	
4231			s	s	2	
2314				s	2	
326154		s				-
3142658709E				b		
325164					-	-
235461	-	-				-
241365					-	-
1324	-				-	-
145362					-	-
415263	-	-				-
423165					-	-
41326578E90				c		
3241				A		
12536487				d		
124365	s					
135264	s		s			
134265	s					
435261	-					
4213658709E				e		
1342				A		

A

a = 1s.2.9s.15.16.18
b = 2.5.13s.14.15.18.19
c = 2.6s.13s.15s.18.19
d = 2s.6.7.9s.13s.15.16
e = 2.15s.18.19

286. 5026 Paul N Mounsey

```
2314567890E  6  7 16 18 19
_____________________________
2143657809E  1s.5.7.8.10.11.13s.15.16 (20)
_____________________________
32146578E90  2.7s.9s.15.16.18
4213657890E  1s.7s.9s.13s.16s.22
_____________________________
1253648709E  1s.2s.6.13s.15s  |
215463       -  -        -    |
243165            a           |
3124         -         -  -    |A
345162                 -  -    |
435261       -  -        -    |
421365            a           |
_____________________________
21437586     3.4.7.12.17.19s
12537486E90  2.6.7.15s
123475869E0  6s.9.10.18
2314657890E  1.6.10s.13.15.16.19s.22s
3241E576980  1.5.7s.11s.13s.14.15.19 (20)
531246E9780  1.2.4.6.9.11 (12)
2314567809E  2s.3.8s.11s.12.14s.20s.21
_____________________________
43125678E90  1.9s.13s.16s.18s.22          |
4231                 -                  |
2314                 s  2               |B
_____________________________           |
3214567890E  7s.12.14.15.16.17.18.19 (20) |
_____________________________
1234657809E  1s.5.8s.10.11.13s.14.15.16 (20)
4312657890E  6.9.10.16s.19s
_____________________________
4312658709E       A
_____________________________
13426587E90  2.6.15s.19s
235164       6.7.9s.16s
1324567809E  2.5s.6.9s.13.14.15.16.18
_____________________________
3124567890E       B
_____________________________
a = 3.4.12s.17s.18.19
```

287. 5050 Paul N Mounsey

2314567890E	6	7	16	18	19	
2143657809E			a			
21346578E90	2.9s.		15s.	18		
2413				-		
4213657890E			b			
1253648709E	1s.	2s.	6.	13s.	15s	A
215463	-	-			-	
243165				-	-	
3124	-			-	-	
345162				-	-	
435261	-	-			-	
421365				-	-	
21437586	3.4.7.		12.	17.	19s	
12537486E90	2.6.7.		15s			
2314567809E			c			
43125678E90	1.9s.		13s.	16s.	18s.22	
4231				-		
2314			s	2		B
3214567890E			b			
4312658709E			A			
13426587E90	2.6.		15s.	19s		
1234				-		
1234657890E			d			
1324567809E			e			
3124567890E			B			

a = 1s.5.7.8.10.11.13s.15.16 (20)
b = 7s.12.14.15.16.17.18.19 (20)
c = 2s.3.6.12.13.14.15.16.18s.19
d = 12.14.16s.17.18.19 (20)
e = 1s.5.7.8.10.11.13s.15s.16 (20)

288. 5052 Paul N Mounsey

```
2143658709E  6  7  9 16 18 19
-------------------------------------------
1342657890E  3.7s.9s.13.14.16.17.18.19 (20)
1234         1s.10s.18
3241E576980  1.5.11s.13.14.15.16.19 (20)
531246E9780  1.2.4.6.9.11 (12)
43125678E90  3.8s.12s.14s.21
-------------------------------------------
2134              s  s  2    |A
1423                 s  -    |
-------------------------------------------
1342                       -
4123                A
-------------------------------------------
134265870E9  2.5.7.8.9.10.13.14.16.18s.20 (20)
4253618709E  1.6.9.10
-------------------------------------------
245163       -  -           -
213465                   -  -
135264       2  -           -
124365                   -  -
-------------------------------------------
32417586     3.4.7s.9s.12.16.17
31427586E90  2.15s.18s
3241                     s
315274       s     s
1352            s
123475869E0  6s.10s.18
1243758609E  1.9s.18
135274                   -  -
1253              s
-------------------------------------------
12536487E90  2s.3.12.15s
124365       s
215364       -  -
214365       s
4153628709E  2.6.15s
-------------------------------------------
145263       -  -           -
123465                   -  -
3412         -           -  -
325461                   -  -
235164       -  -           -
214365                   -  -
-------------------------------------------
```

Start from rounds as the first row of a slow six

289. 5061 Paul N Mounsey

3124567890E	6	19
4213		a
21465378E90		b
213456		-
3142	-	2
4132	-	s
3124	-	2
213654		c
214356		-
214563		d
213465		-
3124	-	s
3152648709E		e
314265		s
4123	-	2
415362		s
213564	2	2
312465	-	-
3124657890E		f
2134	-	s
215364		-
214365		s
21436587		g
21536487E90		h
213465		2
3142	-	2
315264		s
5132648709E		i
3125	-	2
2153	-	2
214365		s

a = 1.3.5.8.10 (11)
b = 1.6s.7.19
c = 1.2.6.10s.15s.19
d = 5s.8s.10.11.13s.15s.16.17 (20)
e = 2.13s.15s.19
f = 3.13.14.16.17.18.19 (20)
g = 1s.10s.13s.15s.22s
h = 1.19s
i = 2.6.15s.19s
Start from rounds as the fourth row of a slow six

290. 5064 Paul N Mounsey

```
2143658709E
_____________
1342657890E  3.7s.9s.13.14.16.17.18.19 (20)
31426578E90  1s.2.15.16
3241         9s
1234         9s.16s.18
3241E576980  5.11s.13.14.15.16.19 (20)
531246E9780  1.2.4.6.9.11 (12)
2143568709E  1.2s.5.8.9.16s.21
563412       7.9s.14s.18
134265       6.7s.9s.14s.18
_____________
4213         1s.6.10s.18.19    |
435261       3.4.12s.17s.18.19 |
345162       6.7.19            |
312465       3.4.12s.17s.18.19 |
215463       6                 |
125364       6.7.19            |
134265879E0  1s.13s.18.19.22   |A
_____________
135264       1s.6s.10s         |
1253         9s                |
2351         1.7s.9.10.13s.22  |
324165       1s.6.7.10s        |
2341         7s                |
_____________
3241758609E  1.3.4.12.16.17
31527486E90  2.15s.18.19
123475869E0  6.7.10s.18
1253748609E  1.19
124375       19s
31426587     3.4.9s.12.16.17
_____________
214365879E0    A
2143658709E  1
```

Start from rounds as the first row of a slow six

291. 5067 Paul N Mounsey

2314567890E		
24315678E90	1.18	
2134	9s	
1234567809E	2.15.16	
2361547890E	4s.10s.16s.17.19	
23416587E90	1s.2.5.6s.13s.14.15	
23417586	13.22s	
235174	6s	
2351748609E	2.15s	
234175	6s	
32516487	3.4.7s.9s.12.17s.18.19	
235461	6.7.19	
241365	3.4s.6s.8.9.11s.13s.14.16.17 (20)	A
1324	6.18.19	
145362	18.19	
314265	A	
3142657890E	3.13.14.16.17.18.19 (20)	
32146578E90	1.18	
2314657890E	7s.12.14.15.16.17.18.19 (20)	
3241	1.7s.9.10.13s.18.22	
2341	7.8.11s.20.21	
2143	1s.9.10	
1243	1.7s.12.14.15.16.17.18.19 (20)	
1342	8.9.11s.20.21	
325164	1s.6.7.9.10	
32416587E90	1s.2.5s.6s.13s.14.15	
2143658709E	X	

292. 5069 Paul N Mounsey

```
2314567890E  6  7 18 19
-----------------------
2143657809E  1s.5.7.8.10.11.13s.15.16 (20)
-----------------------
14236578E90      a
-----------------------
135462            -  -  |
315264      -  -     -  |A
324165            -  -  |
-----------------------
3142658709E      b
2413             A
-----------------------
432165879E0  2.10s.15.16.18
-----------------------
4132              -     |
1243        16s.18      |B
1324              -     |
-----------------------
1342658790E  9s.13s.18.22
1324         9s.18
-----------------------
1453628709E  1s.18.19
415263       -  -     -
423165            -  -
-----------------------
41326578E90      b
425163            -  -
245361      -  -     -
2314657890E  2.10s.15s.18.19
-----------------------
3241E576980  1.5.7s.11s.13s.14.15.19 (20)
531246E9780  1.2.4.6.9.11 (12)
-----------------------
23517486E90  1s.3.9.10.12s.16s.18.21
-----------------------
1342758609E  2.7s.9s.15.16.19s
-----------------------
42136587     3s.6.12.18.19
3124             A
-----------------------
431265879E0  2.7s.9.10.15.16.18
2314             B
-----------------------
32416587E90  7s.9.10.18
-----------------------
2431658709E      a
1342             A
-----------------------
a = 2.6.7s.9s.15s.18.19
b = 2.6s.13s.15s.18.19
```

293. 5069 Paul N Mounsey

```
2314567890E  6  7  9 16 18 19
-------------------------------
31245E76980        a
1E3254          -          -
23145E76809  2.6s.7.9.10.15.16.18.19s
231456789E0  2.11s.15s.20.22
2314567809E  1
43215678E90  1.9s.13s.16s.18.22
-------------------------------
4132                    -    |A
1324                  s  2   |
-------------------------------
4312               s  s  -
2314                 A
3241E576980  1s.5.6.7.10.11.13s.14.15.19 (20)
531246E9780  1.2.4.6.9.11 (12)
23517486E90  1s.3.9.10.12s.16s.18.21
1342758609E  2.7s.9s.15.16.19s
14536287     3.4.12.17.19
-------------------------------
132465               b       |
2413         -           -  - |B
235461                   -  - |
-------------------------------
325164       -  -          -
415263               B
13426578E90  2.7.13s.15s.19s
1342657890E  12.14.15.16.17.18.19 (20)
1234         1s.10s.18
342561879E0  1s.2.6s.7.10s.13s.15.16.18
342567890E1  2.11s.15s.20.22s
4235618709E          a
421365                      -
435261                   -  -
345162       -  -           -
215463               B
125364       -  -           -
134265               b
-------------------------------
a = 1.6s.7.9.10.18.19.21
b = 3.4.12s.17s.18.19
```

294. 5081 Paul N Mounsey

```
2314567890E  6  7  9 16 18 19
-----------------------------
43215678E90  1.9s.16s.18
4132                    -
1324                 s  2
4231              s  s  2
2314                 s  2
1543E276980  1s.6.10.11.13s.14.15.19 (20)
213546E9780  1.2.4.6.9.11 (12)
1352648709E  1.2s.3.4.7.8.9.10.11.12.17.20s.21
315462       -  -          -
342165                  -  -
2134         -          -  -
245163                  -  -
425361       -  -          -
431265                  -  -
1243         -          -  -
43126578E90  2.6.13s.15s.18.19
3412            s
1234         -          -  -
2134            s
3421         -          -  -
4321            s
2143         -          -  -
1243            s
32516487     2s.9s.13s.15.16.18.19
234165               s     s
235164                     s
134265            s  s  -  -
435261       -
4213658709E  2.15s.18.19
435261                  -  -
345162       -  -          -
312465                  -  -
2431         -          -  -
215463                  -  -
125364       -  -          -
134265                  -  -
```

295. 5084 Paul N Mounsey

3241658709E	6	7	9	16	18	19	
41325678E90				a			
4213					-		
2134				s	2		
4312			s	s	2		
3124				s	2		
136254		s				-	
1243658709E				b			
135264					-	-	
315462	-	-				-	
342165					-	-	
2134	-				-	-	A
245163					-	-	
425361	-	-				-	
431265					-	-	
12436578E90				c			
2143		s					
4321	-				-	-	
3421		s					
2134	-				-	-	
1234		s					
3412	-				-	-	
4312		s					
31526487				d			
314265	s						
215364	s		s	s	s		
214365	s						
415362	-						
4321658709E				e			
2143				A			

a = 3.6s.8s.12.14s.20s.21.26.28s.30 (34)
b = 2.5.13s.14.15.18.19
c = 2.6.13s.15s.18.19
d = 2s.6.13s.15.16
e = 2.15s.18.19
Start from rounds as the fifth row of a slow six

296. 5086 Paul N Mounsey

2314567890E	1	6	19	
21346578E90		a		
3142		-	2	
4132		-	s	
3152647890E		b		
51326478E90	-	-	s	
312456		c		
2143		-	2	A
4123		-	s	
416352			s	
4123658709E		d		
415362			s	
213564		2	2	
3152		-	2	
1342657890E		e		
31246578E90		f		
2153648709E		A		
132456		g		
3124567890E		h		

a = 1.5.7.8.10.11.13s.15s.16 (20)
b = 6.12.14.15.16.17.18.19 (20)
c = 5s.6.9s.18
d = 2.5.13s.14.15.19s
e = 3.6.7.13.14.16.17.18.19 (20)
f = 1s.2.7s.9s.15s.18
g = 5s.6.14s.16s.18
h = 3.7s.13.14.16.17.18.19 (20)

297. 5088 Paul N Mounsey

2314567890E	6	7	9	16	18	19	
2143657809E				a			
21346578E90	2.9s.		15s.		18		
2431657890E				b			
42136578E90	1.7s.		9s.		18		
1253648709E	2.	6.	13s.		15s		
215463	-	-				-	
243165					-	-	
3124	-				-	-	A
345162					-	-	
435261	-	-				-	
421365					-	-	
12536487E90	2.	6.	15s				
214365	s			s			
435162	-		s				
43215678				c			
4132					-		B
1324				s	2		
1324567890E				z			
3142657809E				d			
31246578E90	2.9s.		15s.		18		
3421			s				
4312		s	s		-		
4312658709E				A			
13526487E90	2.	6.	15s				
234165		s	s	s		s	
435261	-		s		-	2	
23145678				B			
2314567890E				z			

a = 1s.5.7.8.10.11.13s.15.16 (20)
b = 9s.12.14.15.16.17.18.19 (20)
c = 2s.5.13s.14.15.19s
d = 1s.5.7.8.10.11.13s.14.15 (20)
z = 12.14.15.16.17.18.19 (20)

298. 5090 Paul N Mounsey

132547698E0	1	6	19
243165879E0		a	
215364	9s.		19
214365		s	
614523	5.	6.	19
5124638709E		b	
2154		-	s
213465			s
3124		-	s
315264			-
314265			s
3124658790E		c	
31526487E90	-		-
314265			s
315462			-
312465			s
2134	1s.	6.	10s.19s
215364			-
214365			s
2153748690E		d	
2143758609E	s		s
215473			-
213475			s
3124		-	s
315274			-
314275			s
3152748690E		e	
31427586E90	-		s
315472			-
312475			s
2134		-	s
215374			-
214375			s
4123758609E		f	
41526387		g	
413265			s
415362			-
412365			s
215364		-	
214365		s	

a = 2.4.7.9 (10)
b = 1s.2.3.4.9.10.15s.17s.21.22 (24)
c = 9.10.18
d = 9.10.13.18.19.22
e = 10s.19s
f = 2.6.15s.19s
g = 3.4.12.17s.19
Start from rounds as the fifth row of a quick six

299. 5092 Paul N Mounsey

321547698E0	6	7	9	16	18	19	
142365E7980				a			
1452367890E				b			
12435678E90				c			
1324					-		
4231			s	s	2		
2314				s	2		
4132			s	s	2		
326154	-				s		
3142658709E				d			
325164					-	-	
235461	-	-				-	
241365					-	-	
1324	-				-	-	A
145362					-	-	
415263	-	-				-	
423165					-	-	
31426578E90				e			
1342		s					
4213	-				-	-	
2413		s					
1324	-				-	-	
3124		s					
2431	-				-	-	
4231		s					
23516487				f			
234165	s						
215364	s		s				
214365	s						
4321658709E				g			
2143				A			

a = 1s.2.4.7.9 (10)
b = 1.2.3s.4.9.10.12.13.15s.16.17.22s.24s (24)
c = 1.5.14s.18
d = 2.5.13s.14.15.18.19
e = 2.6.13s.15s.18.19
f = 2s.6.13s.15.16
g = 2.6.15s.18.19
Start from rounds as the third row of a quick six

300. 5095 Paul N Mounsey

1234567890E	6	7	9	16	18	19	
124638597E0	1s	(1)					
123456E9780				a			
153246				b			
12435678E90				c			
1324					-		
4231			s	s	2		
2314				s	2		
4132			s	s	2		
326154	-				s		
3142658709E				d			
325164					-	-	
235461	-	-				-	
241365					-	-	
1324	-				-	-	A
145362					-	-	
415263	-	-				-	
423165					-	-	
31426578E90				e			
1342		s					
4213	-				-	-	
2413		s					
1324	-				-	-	
3124		s					
2431	-				-	-	
4231		s					
23516487				f			
234165	s						
215364	s		s				
214365	s						
4321658709E				g			
2143				A			

a = 1.3.5s.6.7.8.11s.12.13.14.16.18s (18)
b = 2.4s.6s.8s.11.14s (20)
c = 1.4.7s.10s.12s.14s.16.18s.22
d = 2.5.6.8s.9.10.13s.16.17.18.20s (20)
e = 1.2.3.5s.6.8.9.13.14.16.18s.20 (20)
f = 2s.6.13s.15.16
g = 2.6.15s.18.19
Start from rounds as the last row of a slow six

8615. 5097 Paul N Mounsey

```
3124567890E  1  6 19
_____________________
421356789E0  1s.3.5.8.10 (11)
4123567809E  1.4s.17
2143            -  s
41265378E90  2.6.15s.19
413256             -
3124            -  2
3142            s  2
4123            -  2
216354          -  3
2145638709E  2.5.13s.14.15.19
213465             -
3142            -  2
4123            -  2
21456387E09  -  -  -
21645378E90  1.3.4.9.10.12.13.15s.16.17.21.22.24s (24)
213465       5.6s.14s
3142            -  2
4123            -  2
4132            s  2
3124            -  2
2143            -  2
4125638709E  2.6.13s.15s.19
413265             -
3124            -  2
2143            -  2
_____________________
```

Start from rounds as the fourth row of a slow six

301. 5100 Paul N Mounsey

2143658709E	
1342657890E	3.7s.9s.13.14.16.17.18.19 (20)
1234	1s.10s.18
3241E576980	1.5.11s.13.14.15.16.19 (20)
531246E9780	1.2.4.6.9.11 (12)
6524130789E	1.3s.4.6.9.10 (12)
5634128709E	3.4.6.7.8.9.11s.13s.14.17s (20)
134265	6.7s.9s.14s.18
435261	1s.6.10s
345162	6.7.19
312465	3.4.12s.17s.18.19
215463	6
125364	6.7.19
134265879E0	1s.13s.18.19.22
135264	1s.6s.10s
1253	9s
2351	1.3s.4.6.7.9s.14.16s.18s.20 (20)
324165	1s.6.7.10s
2341	7s
3241758609E	1.3.4.12.16.17
31427586E90	2.15s.18s
3241	18s
315274	6s.9s
1352	7s
123475869E0	6s.10s.18
1243758609E	1.3.4.9s.12s.17s.18
135274	3.4.12s.17s.18.19
1253	3.4.12s.17.18
31426587	9s.13.16s.19s.22s
4231	1s.6.10s.18.19
415263	3.4.12s.17s.18.19
145362	6.7.19
132465	3.4.12s.17s.18.19
235461	6
325164	6.7.19
314265879E0	1s.13s.18.19.22
2143	A
2143658709E	1

Start from rounds as the first row of a slow six

302. 5100 Paul N Mounsey

```
2143658709E
___________
1342657890E  3.7s.9s.13.14.16.17.18.19 (20)
1234         1s.10s.18
253416       1.5s.7.12.14.15.16.17.18.19 (20)
56341287     1.7.12.14.16s.17.18.19 (20)
1342658709E  1s.6.7s.9s.14s.18
___________
4213         1s.6.10s.18.19     |
435261       3.4.12s.17s.18.19  |
345162       6.7.19             |
312465       3.4.12s.17s.18.19  |
215463       6                  |
125364       6.7.19             |
134265879E0  1s.13s.18.19.22    |A
___________
135264       1s.6s.10s          |
1253         9s                 |
2351         1.7s.9.10.13s.22   |
324165       1s.6.7.10s         |
2341         7s                 |
___________
3241758609E  1.3.4.12.16.17
3142758690E  3.9s.13s.14.16.17.18.19 (20)
32417586E90  1.18s
315274       6s.9s
1352         7s
123475869E0  6s.10s.18
1243758609E  1.3.4.9s.12s.17s.18
135274       3.4.12s.17s.18.19
1253         3.4.12s.17.18
31426587     9s.13.16s.19s.22s
___________
214365879E0    A
2143658709E  1
```

Start from rounds as the first row of a slow six

303. 5100 Paul N Mounsey

2314567890E	1	6	19	
21346578E90		a		
3142		-	2	
4132		-	s	
3152647890E		b		
51326478E90	-	-	s	
312456		c		
2143		-	2	A
4123		-	s	
416253			-	
4132658709E		d		
415362			-	
213564		2	2	
3152		-	2	
314265			s	
31246578E90		e		
2153648709E		A		
231456		f		
2314567890E		g		

a = 1.5.7.8.10.11.13s.15s.16 (20)
b = 6.12.14.15.16.17.18.19 (20)
c = 5s.6.9s.18
d = 2.5.13s.14.15.19s
e = 2.9s.13s.15s.18
f = 5s.6.14s.18
g = 3.13.14.16.17.18.19 (20)

304. 5105 Paul N Mounsey

```
2314567890E  6  7  9 16 18 19
_____________________________
2143657809E  1s.5.7.8.10.11.13s.15.16 (20)
_____________________________
32156478E90  2.6.7.9s.15.16.18
2315                 s
234561       s
432165       -               -
3421                 s
143562       s     s  s  -
4135                 s
413265       s     s     s  -
425163                   -  -
253164       -       s
213465       s           s  -
_____________________________
3421658709E  2.6.13s.15s.18.19
_____________________________
315462                   -  -  |
135264       -  -           -  |
124365             a           |A
245163       2  -           -  |
213465             a           |
_____________________________
21437586     3.4.9s.12.17s.18
12537486E90  2.6.7.15s
2314567809E  2s.3.6.12.13.14.15.16.18s.19
231456789E0  1s.10s.12.14.15.16.17.18.19 (20)
_____________________________
23145678E90  10s
4132               s  s  2
1324                  s  2
4231               s  s  2
2143                  s  -
_____________________________
1342568790E  2s.7s.9s.12.14.16.17.18.19 (20)
_____________________________
4213658709E  1s.5.8s.9.10.13s.14.15.16.18s (20)
1342                 A
_____________________________
a = 3.4.12s.17s.18.19
```

8616. 5125 Paul N Mounsey

1234567890E	1	6	7	9	16	18	19
43125678E90	1s.	2.	6.	9s.	15.	16.	19s
4231						-	
2314					s	2	
4132				s	s	2	
1324					s	2	
235461879E0	1s.	5.	8s.	10s.	13.	14.	16. 17. 18 (20)
2413658709E	-					-	-
1324		-				-	-
145362						-	-
415263		-	-				-
423165						-	-
3142		-				-	-
325164						-	-
2341657890E	3.	6.	7.	13.	14.	16.	17. 18. 19 (20)
32416578E90	-		s				
4132		-				-	-
1432			s				
3214		-				-	-
2314			s				
1423		-				-	-
4123			s				
125364		s	-				
2153			s				
32516487	2s.	9s.	13s.	15.	16		
234165					s		s
235164							s
134265				s	s	-	-
431562		-					-
4321658709E	2.	15s.	19				
415362						-	-
145263		-	-				-
123465						-	-
3412		-				-	-
325461						-	-
235164		-	-				-
214365						-	-

Start from rounds as the last row of a quick six

305. 5300 Paul N Mounsey

```
3241658709E  1  6  7  9 16 18 19
-------------------------------
31426578E90  2.6s.13s.15s.18.19
1342            s
4213         -              -  -
2413            s
1324         -              -  -
3124657890E  7s.12.14.15.16.17.18.19 (20)
24316578E90  -  -              -  -
4231            s
4261E375980  6s.11s.13s.14.15.16.19 (20)
341265E9780  1.2.4.6.9.11 (12)
32416587E90  1s.3.8s.12s.18.21
235164          -  -
234165          s
135264          -  -  s  s
134265          s
4213658709E  1.6.13s.18.19.22
-------------------------------
435261                    -  -  |
345162          -  -         -  |
312465                    -  -  |
2431            -         -  -  |A
215463                    -  -  |
125364          -  -         -  |
134265                    -  -  |
-------------------------------
1243567890E  1s.5.8s.9.10.13s.16.18s (20)
13245678E90  -                 -
4231                  s  s  2
2314                     s  2
4132                  s  s  2
3261547890E  6.9s.12.14.15.16.17.18.19 (20)
3142658709E  1.2.5.13s.14.15.18.19
4231                  A
2143658790E  s  -        s  -  -
2143658709E  s
-------------------------------
Start from rounds as the fifth row of a slow six
```

306. 5300 Paul N Mounsey

1234567890E	6	19	
21365478E90		a	
214356		-	
4123	-	s	
216354	-	3	
214563		b	
215364		2	
214365	s		A
4123	-	s	
4123658709E		c	
415263		-	
312564	2	2	
214563	-	3	
2134567890E		d	
31265478E90		e	
3124567890E		A	

a = 1s.2.6s.15.16.19
b = 5.14s.19
c = 2.6s.13s.15s.19s
d = 3.4.9.10.12.13.15s.16.17.22s.24s (24)
e = 1s.2.6.15s.19
Start from rounds as the last row of a quick six

307. 12675 Paul N Mounsey

```
2314567890E  1  6  7  9 10 15 16 18 19
-------------------------------------------
41325678E90  -     s     s  2
1324               s  2
4231               s  2
2314               s  2
-------------------------------------------
1543E276980  1s.6.10.11.13s.14.15.19 (20)
213546E9780  1.2.4.6.9.11 (12)
-------------------------------------------
2351748609E  1.2s.3.4.9.10.11.12.17.20s.21
-------------------------------------------
235174E6098                 s              |
3154728609E  2.3.4s.7.12s.17.18            |
315472E6098                 s              |
1452738609E  2.3.4s.7.12s.17.18            |A
145273E6098                 s              |
4253718609E  2.3.4s.7.12s.17.18            |
425371E6098                 s              |
-------------------------------------------
4312758609E  2.3.4s.12s.17s.18.19
3241                        s  -
2134                        s  -
1423                        s  -
-------------------------------------------
13247586E90  2.6s.15s.18.19
-------------------------------------------
132475869E0            s                |  |
14537286E90            s        -  -    |  |
415273      -  -                  -    |B |
423175869E0            s        -  -    |  |C
42317586E90            s                |  |
-------------------------------------------
3142        -                    -  -    |  |
2413                B                    |  |
-------------------------------------------
1324658790E  6.10s.13.18.19.22
31526487E90  -     s                    -
314265                                  s
135264            s  s              -  -
134265                                  s
-------------------------------------------
2413658709E  2.6.9s.15.16.19s
-------------------------------------------
235461                           -  -    |  |
325164         -  -                 -    |D |
314265      3.4.12s.17s.18.19            |  |E
-------------------------------------------
4231           -                 -  -    |  |
1324                D                    |  |
-------------------------------------------
3124657890E  7s.10s.13s.15s.22s
1342657809E        s  -  -          -
1243                                s
5463217890E  4s.7.10s.14s.16s.17
-------------------------------------------
231654789E0  1.10s.14s.18.19s
1326            -                       s
342651             -
2436            -                       s
413652             -
3146            -                       s
124653             -
4216            -                       s
-------------------------------------------
2143567809E  -  s  -                    -
2314                             -
-------------------------------------------
2453017698E  6s.11s.13.14.15.19 (20)
123456E9780  1.2.4s.6.9.11 (12)
1423657809E  1.2s.3.4.8.15.16.19s.21.22.23 (24)
134265870E9  7s.13s.15.16.18.22
-------------------------------------------
1352748609E  6s.13.22
415372E6098             A
1243758609E  2.3.4s.7.12s.17s.19s
2314                        s  -
3421                        s  -
4132                        s  -
-------------------------------------------
12347586E90  2.6.7.15s.18.19
3412                    C
4321658709E  2s.3.7s.9s.12.15s.18
2143                    E
```

308. 5002 John Nelms

2314567890E		5	6	19
31642578E90			a	
615234		-		-
5126			-	2
214635			-	3
415632			-	3
513264			2A	
314652		-		-
4163			-	2
612354			-	3
2136			-	2
312456			-	-
3124567890E			z	

A

a = 1.5.6.7

z = 12.14.15.16.17.18.19 (20)

309. 5002 George Newson

2314567890E	5	6	19	
51632478E90		a		
514623			-	
413625		-	3	
215643	-	-	3	
513642		-	3	A
3165		-	2	
612543		-	3	
215364		A		
514362		-	3	
413256		A		
3124		-	2	
3124567890E		z		

a = 1.4.5.17.19

z = 12.14.15.16.17.18.19 (20)

1950. 5134 George Newson

2314567890E	1	5	6	7	19	
31265478E90	-		s	-	-	
214653			-		3	A
413652			-		3	
3164			-		2	
612453			-		3	
514263		-	-		2	
413265			-		3	
3124			-		2	
312564			s		-	
312456			A			
3124567890E			z			

z = 12.14.15.16.17.18.19 (20)

310. 5004 Richard C Offen

1234567890E	6	19
2154638709E		a
213465	s	3
21546378E90		b
213465	s	3
216453		c
213456	s	3
1423567890E		d

3-part

a = 1s.5.7.8.10s.13.14.17s.18 (20)
b = 1.2.3.5s.7.9s.10.12s.14.16.17 (18)
c = 5s.8.9.10.11.13s.15 (20)
d = 2.6s.7.9.10.15s.19s
Start from rounds as the last row of a quick six

311. 5007 Richard C Offen

1234567890E	7	18	19	
14625378E90		a		
421356	-	-	-	
436152		s	-	
314256	-	-	-	
326451		s	-	
243156	-	-	-	
215364		b		
132465	-	-	-	
145263		s	-	
421365	-	-	-	
435162		s	-	A
314265	-	-	-	
325461		s	-	
243165	-	-	-	
2153648709E		c		
243165		A		
12546378E90		d		
134265		A		
1254638709E		c		
134265		A		

a = 1s.2.15s.18.19
b = 2s.5.7.8.9.10.16.17.18.20s (20)
c = 2.13s.15s.18s.19
d = 2.6s.9s.13s.15.16
Start from rounds as the last row of a quick six

312. 5007 Richard C Offen
(No 2)

```
2314567890E
_____________
14536278E90     a
341265          w
215463          x
412365          w
325164          x
123465          w
43526187        b
_____________
234165          w |
145362          x |
341265          w |
215463          x |
412365          w |
325164          x |
123465          w |
4352618709E     c | A
234165          y |
145362          z |
341265          y |
215463          z |
412365          y |
325164          z |
123465          y |
_____________
34516287E90     d
2143658709E     A
_____________
a = 1.5.8.9.10.11.13.14.15.16.17 (20)
b = 2s.4.6.9s.13s.14.16
c = 2.4.6.9s.14.16
d = 2.6.8.15s.18s.21s
w = 2s.4.6.9s.14.16.18s.19
x = 2s.4.6.9s.14.16
y = 3.4.6.9s.12s.16.18s.19
z = 3.4.6.9s.12s.16
```

313. 5007 Richard C Offen
(after MVC)

```
2314567890E
_____________
35146278E90     a
543261          v
_____________
4532           7s  |
521364           u |A
235461           v |
_____________
235461E9780     b
342165          x
_____________
4321           7s  |
315264           w |B
123465           x |
_____________
2143            2B
23546187E90     c
342165          v
2143            3A
2354618709E     d
342165          z
_____________
4321           7s  |
315264           y |C
123465           z |
_____________
2143            2C
_____________
a = 1.5s.7s.8.9.10.11.13.14.15.17s (20)
b = 3.8s.12s.21
c = 1s.3.6s.8s.9.12s.21
d = 2.6s.8s.9.15s.21s
u = 2s.4.6.14.16.18s
v = 2s.4.6.14.16.18s.19
w = 1.2.4.6.10s.14.16.18s
x = 1.2.4.6.10s.14.16.18s.19
y = 3.4.6.12s.16.18s
z = 3.4.6.12s.16.18s.19
```

314. 5009 Richard C Offen

2314567890E	6	7	18	19	
12435678E90			a		
2431	s	-		2	
4312	s	-		2	
421365			b		
435162			s	-	
314265		-	-	-	
325461			s	-	
243165		-	-	-	
215364			s	-	A
2153648709E			c		
132465		-	-	-	
145263			s	-	
421365		-	-	-	
435162			s	-	
314265		-	-	-	
325461			s	-	
243165		-	-	-	
21345678E90			d		
1342658709E			A		

a = 1s.2.6.8.10.12s.14s.16.18s.20s (20)
b = 3s.8s.10s.12s.18s.21s
c = 2.13s.15s
d = 2s.3.8s.9.10.12.13.15s.21s

315. 5019 Richard C Offen

2314567890E	1	6	7	19	
31425678E90	-	-	s	2	
316254				s	
312456				2	
2143		-		2	A
4132		-		2	
416253				s	
412356				2	
312465			a		
2143		-		2	
4132			A		
4132658709E			b		
3124		-		2	
2143			A		

a = 3s.7.8.9.10.12s.16s.21s
b = 2.13s.15s

316, 5019 Richard C Offen
(after MVC)

```
 2314567890E
 ___________
 23645178E90     a
 342156          v
 ___________
 4321           7s  |
 316254           u |A
 123456           v |
 ___________
 241365E9780     b
 432561          x
 ___________
 3425           7s  |
 451263           w |B
 524361           x |
 ___________
 2534            2B
 24156387E90     c
 452361          v
 2354            3A
 2354618709E     d
 342165          z
 ___________
 4321           7s  |
 315264           y |C
 123465           z |
 ___________
 2143            2C
 ___________
```

a = 1.6s
b = 3.8s.10s.12s.16s.18.21
c = 1s.3.6s.8.9.12s.21
d = 2.15s
u = 2s.4.6.14.16.18s
v = 2s.4.6.14.16.18s.19
w = 1.2.4.6.10s.14.16.18s
x = 1.2.4.6.10s.14.16.18s.19
y = 3.4.6.12s.16.18s
z = 3.4.6.12s.16.18s.19

317. 5021 Richard C Offen

2314567890E	1	6	7	18	19	
14235678E90	-	-		-	-	
4123			s			
2341		-		-	-	
3241			s			
4132		-		-	-	
1432			s			
143265			x			A
4132			s			
3241		-		-	-	
2341			s			
4123		-		-	-	
1423			s			
34126587			a			
1234		-		-	-	
123456			A			
4213568709E			b			
1342		-		-	-	
134265			A			

a = 2s.9s.13s.15.16.18
b = 2.9s.15.16.18
x = 3s.8s.10s.12s.21s

318. 5021 Richard C Offen

2314567890E	1	6	7	18	19	
14235678E90	-	-		-	-	
4123			s			
2341		-		-	-	
3241			s			
4132		-		-	-	
1432			s			
143265			x			A
4132			s			
3241		-		-	-	
2341			s			
4123		-		-	-	
1423			s			
341265E9780			a			
1234		-		-	-	
123456			A			
4213568709E			b			
1342		-		-	-	
134265			A			

a = 3.8.9.12s.16s.18.21
b = 1.2.3.8.9.12s.16s.18.21
x = 3s.8s.10s.12s.21s

319. 5081 Richard C Offen

```
 2314567890E
 ___________
 432561E9780    a
 214563        2u
 152364         v
 415362        3u
 134265         v
 31246587E90    b
 143562         x
 214563        3w
 152364         x
 415362        3w
 134265         x
 31246579E80    c
 143562         v
 214563        3u
 152364         v
 415362        3u
 134265         v
 3124658709E    d
 143562         z
 214563        3y
 152364         z
 415362        3y
 134265         z
 _____________
a = 1.6s.9s.11s.13.15.17.22s.24.26.29 (32)
b = 1s.3.7s.8.9.12s.18.21
c = 2s.7s.8.9.13s.15s.18.21
d = 1.2.3.7s.8.9.12s.18.21s.22
u = 1.2.4.6.10s.14.16
v = 1.2.4.6.10s.14.16.18s.19
w = 2s.4.6.14.16
x = 2s.4.6.14.16.18s.19
y = 3.4.6.12s.16
z = 3.4.6.12s.16.18s.19
```

320. 5081 Richard C Offen

2314567890E	6	7	9	18	19	
32145768E90			a			
1432	-			-	-	
4132		s				
3241	-			-	-	
324156E9780			b			
2314		s	s	-		
32146587E90			c			
1432	-			-	-	
4132		s				
3241	-			-	-	
2341		s				A
4123	-			-	-	
1423		s				
2314	-			-	-	
23146578			d			
3214			A			
315246E9780			e			
124356			f			
23145678E90			g			
3214			A			
13579E24680			h			
1324658709E			i			
3124		s				
2431	-			-	-	
4231		s				
3142	-			-	-	
1342		s				

a = 1s.2.6.7.11s.15s.17s.19.20
b = 4.5.7s.9.12.14.15.16.17.18 (18)
c = 1s.3.7.8.10s.12s.21
d = 2s.13s.15s
e = 3.6s.8.10.12s.21
f = 5.14s.16s.18s
g = 3s.4.8s.12s.16.17.18.21
h = 3.5.6.8.9.12.14.15.16 (16)
i = 1.5s.6.7.10.11.18.19.20 (20)

321. 5089 Richard C Offen

1234567890E	6	7	18	19	
21345678E90			a		
3421		-	-	-	
342156E9780			b		
34216578E90			c		A
4321		s			
432156E9780			d		
43215678E90			e		
124356E9780			A		
12435678E90			e		
341256E9780			A		
34125678E90			e		
213456E9780			A		
21346587E90			f		
3421		-	-	-	
4321		s			
2143		-	-	-	
1243		s			B
4312		-	-	-	
3412		s			
1234		-	-	-	
1243658709E			g		
2143			B		

a = 1s.2.7s.15s
b = 4.5.6.7.9.12.14.15.16.17.18 (18)
c = 3.8s.10s.12s.21
d = 4s.5.7.9.12.14.15.16.17.18 (18)
e = 3.8s.12s.21
f = 1s.3.8s.10s.12s.21
g = 2.9s.15s.18
Start from rounds as the last row of a quick six

2578. 5016 Joseph W Parker

2314567890E	1	2	4	6	7	9	11	14	16	19	21
412653	-	-	-	-		-	-	-	-	-	-
623541	-	-	-			-	-	-	-	-	-
536421	-	-	-		-	-	-	-	-	-	-
465231	-	-	-		-	-	-	-	-	-	-
254136	-	-	-	-		-	-	-	-	-	-
142356	-	-	-		-	-	-	-	-	-	-
321546	-	-	-		-	-	-	-	-	-	-
513426	-	-	-		-	-	-	-	-	-	-
435216	-	-	-		-	-	-	-	-	-	-
254613	-	-	-	-		-	-	-	-	-	-
641325	-	-	-	s		-	-	-	-	-	-
315264	-	-	-			-	-	-	-	-	-
253614	-	-	-		-	-	-	-	-	-	-
632415	-	-	-	-		-	-	-	-	-	-
421536	-	-	-	-	-	-	-	-	-	-	-
514326	-	-	-		-	-	-	-	-	-	-
345216	-	-	-		-	-	-	-	-	-	-
253146	-	-	-		-	-	-	-	-	-	-
132456	-	-	-		-	-	-	-	-	-	-

Repeat

322. 5007 David E Parsons

(No 1)

2314567890E	5	6	14	19	
21536478E90			a		
213465				2	
3142		-		2	
415263		-		3	
412356	-		s	2	
2134		-		2	A
3142		-		2	
3124		s		2	
2143		-		2	
4132		-		2	
416352				-	
413265	-		s	2	
3124		-		2	
2143		-		2	
2134658709E			b		
2143			A		

a = 1.5.7.8.10.11.13s.15s.16.17 (20)
b = 2.9s.13s.15s.18

323. 5007 David E Parsons
(No 10)

2314567890E		5	6	19
21536478E90			a	
512463			-	-
314256		s	2	2
4123			-	2
612354		7.16s		
413265		s	2	2
3124			-	2
315264				-
213465			A	
3125648709E			b	
314265				-
4123			-	2
4132			s	2
3124			-	2
213564			-	-
2153			s	2
214365			s	

A

a = 1.5.7.8.10.11.13s.15s.16.17 (20)
b = 2.6.13s.15s.19

324. 5007 David E Parsons

(No 11)

2314567890E	6	18	19	
21346578E90		a		
3421	-	-	-	
3412	s		2	
125364	-	-	2	A
124356		x		
4312	-	-	-	
4321	s		2	
216453	-	-	2	
213456			s	
432165		A		
2143	-	-	-	
2153648709E		b		
213465			2	
3421	-	-	-	
345162			s	
341265			2	
1234	-	-	-	
125463			s	
124365			2	
435162	-	-	2	
432165			s	
2143	-	-	-	

a = 1s.2.5.7.8.10s.16.18s.20s (20)
b = 2.13s.15s.19s
x = 5.14s.19s

325. 5007 David E Parsons

(No 5)

2314567890E	1	6	7	19	
24135678E90	1s.	2.	15s.	18s	
4231		-	-	2	|
3241		-		s	|
2314		-	-	2	|
1324		-		s	| A
3142		-	-	2	|
4132		-		s	|
1423		-	-	2	|
4312658790E		a			
3421658709	s	-	-	2	
3412		s		2	
4321		-	-	2	
31246578E90		b			
2134		A			
2134658709E	2.13s.		15s		
1243		-	-	2	
1234		s		2	
2143		-	-	2	

a = 1.2.5.7.8.9.10.13.14.16.18s.20 (20)
b = 2.13s.15.16.18s

326. 5007 David E Parsons

(No 6)

2314567890E	6	18	19	
21345678E90		a		
3421		-	-	-	
3412		s		2	
1234		-	-	-	
1243		s		2	A
4312		-	-	-	
4321		s		2	
2143		-	-	-	
216354				s	
214563		5.	14s.	19	
213465				-	
2143			A		
215364				s	
2153648709E			b		
213465				2	
2143			A		

a = 1s.2.6.7.8.10s.12s.16.18s.20s (20)
b = 2.7.8.13s.15.16.21s

327. 5007 David E Parsons

(No 8)

2314567890E	6	19	
413256E7089		a	
3124	-	2	A
2134	-	s	
3142	-	2	
4123	-	2	
2143	-	s	
21435678E90		b	
3124		A	
316254		-	
314562		c	
312465		-	
4132		A	
4132658709E		d	
2143		A	

a = 1.2.5s.6.7.8.10.11.13.15s.16.20 (20)
b = 1s.3.12.13.15s.22
c = 5.14s.19
d = 2.13s.15s

328. 5007 David E Parsons

(No 9)

2314567890E	6	19	
41325678E90		a	
3124	-	2	A
2134	-	s	
3142	-	2	
4123	-	2	
2143	-	s	
2143567809E		b	
3124		A	
316254		-	
31456278E90		c	
312465		-	
4132		A	
4132658709E		d	
2143		A	

a = 1.5s.6.7.8.10.11.13.15s.16 (20)
b = 2.15s
c = 2.5.14.15.19
d = 2.13s.15s

329. 5019 David E Parsons (No 4)

2314567890E	6	7	19	
41235678E90		a		
1432	-	-	2	
3412	-		s	
4321	-	-	2	
2341	-		s	A
3214	-	-	2	
1234	-		s	
2143	-	-	2	
216453			-	
213564		b		
214365			-	
4123		A		
4123658709E		c		
2143		A		

a = 1s.2.6.9s.15.16.19s
b = 5.14s.19
c = 2.13s.15s

330. 5019 David E Parsons

(No 7)

2314567890E	6 19		
24135678E90	1s.2.9s.15s		
2431	s 2		
3421	- s		
3412	9s.18		
346251	s		
341265	5.6s.14s		
3421	s 2		B
2431	- s	A	
245361	-		
241365	s		
2413658709E	2.13s.15s		
3412	A		
415263	6.7s		
41365278E90	a		
314256	- -		
2143658709E	B		

a = 2.5.13s.14.15.19

331. 5019 David E Parsons

2314567890E	5	6	18	19
23165478E90			a	
231456		s		-
2431			-	
314652		-	-	
314256		s		-
3214			-	
4123			2A	
614352			2	
431562		-		-
214365			B	
4315628709E			b	
214365			B	

a = 1s.2.6s.15s.19
b = 2.6.13s.15s.18

A

B

332. 5025 David E Parsons
(No 5a)

3124567890E	1	6	7	18	19	
31465278E90			a			
312456					-	
1324			s			
2413		-		-	-	
4213			s			
1342		-		-	-	
3142			s			
4231		-		-	-	
2431			s			
2461538709E			b			
245163			c			
431265			-		2	
3421		-	-		2	
3412		s			2	B
4321		-	-		2	
31246578E90			d			
1342		-	-		2	
4312		-			s	
3421		-	-		2	
2431		-			s	A
4213		-	-		2	
1243		-			s	
2134		-	-		2	
2134658709E			e			
2143			B			

a = 1s.4.11s.22 (23)
b = 2.13s.15s.19s
c = 5.14s
d = 2.13s.15.16.18s
e = 2.13s.15s
Start from rounds as the fourth row of a slow six

333. 5100 Stephen D Pettman

```
2143658709E  1  6  7 16 18 19
-------------------------------
43216578E90        a
-------------------------------
3421657890E        b          |A
21346578E90  -  -        -  - |
-------------------------------
1243              2A
2143657890E        b
1253648709E        c
-------------------------------
5312          -          -  - |
3512             s            |
1235          -          -  - |B
2135             s            |
3521          -          -  - |
5321             s            |
-------------------------------
2153          -          s  s
124365        -  -
1253648790E  s  -  -  s
214365        -  -
1243             s
-------------------------------
43126587E90  -  -        -  -
3412             s
1243               B
-------------------------------
215364879E0  s  -  -
1253             s
214365        -  -
1243             s
-------------------------------
4312658709E  -  -        -  -
3412             s
1234          -          -  -
2134             s
3421          -          -  -
4321             s
2143          -          s  s
-------------------------------
```

a = 2.6.s13.s15.18.19
b = s7.12.14.15.16.17.18.19 (20)
c = 1.2.6.7.s13.s15
Start from rounds as the first row of a slow six

3853. 5004 Roderick W Pipe

2314567890E	1	6	7	9	10	18	19
216453						2	-
126354		-	-			3	-
21645378E90	-	-	-			3	-
134256		-	-			2	
316254		-	-				
314265	1.	2.	5.	9.	10.	14.	15.	18.	19
4231		-				-	-
4123						-	
135264			-			-	
321465		-	-			-	
23146587	2.	3.	12.	13.	15.	16	
1423		-				-	-
435261			-			-	
324165		-	-			-	
314265879E0				-	-		
4231		-				-	-
41326587E90				-	-		
125364			-			-	
21537486	2.	3.	12.	15.	16		
123475869E0		-	-	-	-	-	
1253748609E	-						-
214375		-	-				
13246587	3.	4.	12.	16.	17.	18	
2413		-				-	-
435162			-			-	
314265		-	-			-	
3241658790E				-	-		
4231658709E		-		-	-	-	-
215364			-			-	
214356879E0	2.	5.	9.	10.	14.	15.	18.	19	
2314568709E	-					-	
2314567890E	3.	13.	14.	16.	17.	18.	19	(20)

3854. 5004 Roderick W Pipe

2314567890E	1	6	7	9	10	18	19
216453						2	-
126354		-	-			3	-
23145678E90	-	-	-			-	
1423		-				-	-
1342						-	
316254		-	-				
314265	1.2.5.9.10.14.15.18.19						
4231		-				-	-
4123						-	
135264			-			-	
321465		-	-			-	
23146587	2.3.12.13.15.16						
1423		-				-	-
435261			-			-	
324165		-	-			-	
314265879E0				-	-		
4231		-				-	-
41326587E90				-	-		
125364			-			-	
21537486	2.3.12.15.16						
123475869E0		-	-	-	-	-	
1253748609E	-						-
214375		-	-				
13246587	3.4.12.16.17.18						
2413		-				-	-
435162			-			-	
3241658790E			-	-	-	-	-
324165978E0	3.12.13.22						
3241657809E	1.2.3.7.8.12.13.15.16.21						
31426587	2.3.6.7.12.13.15.16.18.19						
4231		-				-	-
215364			-			-	
214356879E0	2.5.9.10.14.15.18.19						
2314568709E	-					-	
2314567890E	3.13.14.16.17.18.19 (20)						

334. 5004 Roderick W Pipe

```
2314567890E  1  6  9 18 19
-----------------------------
546321       1.5.6.9s.12.14.15.16.17.18.19 (20)
41325678E90  1.5.7.9s.18
4231                 s
3142             -   -  -
3214                 -
3124                 s  2
13579E24680  3.5.6.8s.9.12.14.15.16 (16)
3124658709E  1.5s.6.7.10.11.14s.18.19.20 (20)
3421         3.4.12s.17.18
435261       3.4.12s.16.17.19
431265                   s
4213         3.4.12s.17.18
2314657890E  3.7s.9s.13.14.16.17.18.19 (20)
65743218     1.7.9.10.13.14.17.18.22
34256178     4.5.18.19
2453E176980  1.5.11s.13.14.15.16.19 (20)
123456E9780  1.2.4.6.9.11 (12)
2413         1.2.4.6.10s.14.16.18.19
32416587E90  1.3.7.8.9.10.12s.15.16.18.21
2134         2.4.6.12s.14.16.18.19
12346578     2.3.12.13.15.16
1243                 s  -
1342657890E  9s.12.14.15.16.17.18.19 (20)
1243         9.10.12s.13.14.15.16.17.18.19 (20)
2143         1s.7s.12s.13.14.15.16.17.18.19 (20)
1543E276980  1.7.11s.13.14.15.16.17.19 (20)
213546E9780  1.2.4.6.9.11 (12)
12537486E90  1.3.7s.9.10.12s.15s.18.21
123475869E0  6s.9.10.18
1253748609E  -               -
324175       3.4.9s.12s.16.17.18.19
24316587     3.4.7.12.17.19s
2134         3.4.12s.17.18
125364       3.4.12s.16.17.19
1352         3.4.12s.17.18
124365                   -  -
1342         3.4.12s.17.18
2314568790E  1s.5.8s.10.11.13.15.16 (20)
23145678     1s.3.13.14.16.17.18.19 (20)
```

335. 5004 Roderick W Pipe

2314567890E	1	6	7	9	10	18	19
216453						2	-
126354		-	-			3	-
21645378E90	-	-	-			3	-
134256		-	-			2	
316254		-	-				
314265	1.	2.	5.	9.	10.	14.	15. 18. 19
4231		-				-	-
4123						-	
135264			-			-	
321465		-	-			-	
23146587	2.	3.	12.	13.	15.	16	
1423		-				-	-
435261			-			-	
324165		-	-			-	
314265879E0				-	-		
4231		-				-	-
41326587E90				-	-		
125364			-			-	
21537486	2.	3.	12.	15.	16		
1253748609E	2.	15.	16				
214375		-	-				
13246587	3.	4.	12.	16.	17.	18	
2413		-				-	-
435162			-			-	
314265		-	-			-	
3241658790E				-	-		
4132		-				-	-
4231658709E				-	-		
215364			-			-	
214356	1.	2.	5.	9.	10.	14.	15. 18. 19
2314						-	
2314567890E	3.	13.	14.	16.	17.	18.	19 (20)

336. 5008 Roderick W Pipe

1234567890E	
215374E6890	1s.2s.3.4.5.6.7.8.9.11.13.15.16s.17.18.19.20.21.23.25.27 (28)
42315678E90	1.2.4.6.9.11 (12)
4132	18s
32415768	6.17s.18.19
32415678	6s.17s.19s
2314	7s.9s.18
6745132E980	1.3.4.6s.9.10 (12)
345127698E0	1.3s.6s.9.10 (12)
6712534E098	3.4.7s.9.10 (12)
342516798E0	3.4.6.7.9.10 (12)
214375869E0	2.4.7.9 (10)
3124658709E	1.3.4.9s.12.16.17.18
3421	18s
435261	3.4.12s.16.17.19
431265	19s
4213	3.4.12s.17.18
2314657890E	3.7s.9s.13.14.16.17.18.19 (20)
435261	9s.16s.18.19
134265	7.16s.19s
3241	7s.9.10.12s.13.14.15.16.17.18.19 (20)
2143	1s.7s.9.10
1543E276980	1.7.11s.13.14.15.16.17.19 (20)
4352E1	1.2.6.10s.15s.18
1253E4	1.2.7.10s.15.16.18s
35179E24680	1.2.6.10s.12s.13.15.17.18s.23.24 (24)
97E531	5.6.9.10.12s.14.15.16.17.18.19.20 (20)
5462731890E	1.2.3 (4)
67453128	2s.3.5.6.9.10.12s.13 (14)
23146587E90	1.4.5.6.8s.9.10.12.13.14s.17 (20)
435261	9s.16s.18.19
125364	7.16s.18s
12537486	2.3.12.15s
32416587	2.3.9s.12.15.16.18.19
2431658709E	2.6.15.16.19s
2134	3.4.12s.17.18
125364	3.4.12s.16.17.19
12537486	3.4.12.17s
13526487	3.4.12.17.18
124365	18.19
1342	3.4.12s.17.18
3241658790E	1.2.15.16.18s
23517496E80	2s.3.6.7.12s.13.22

Start from rounds as the last row of a quick six

337. 5009 Roderick W Pipe

2314567890E	1	6	7	9	16	18	19
41325678E90	-			s	s	2	
1324					s	2	
4231				s	s	2	
2314					s	2	
1543E276980				a			
3124658709E				b			
345162						-	-
3154						s	
342165						-	-
435261					s		-
421365						-	-
425361							s
431265						-	-
32416578E90				c			
2134			s			-	
1423			s			-	
4312			s			-	
3421			s	s		-	
4132			s			-	
1243			s			-	
2314			s			-	
32146587				d			
1234		-					s
125364							-
124365							s
2143					s		
2154638709E	2.15s.19						
243165						-	-
245163							s
213465						-	-
125364					s		-
124365							s
135264						-	-
134265							s

a = 1s.6.10.11.13s.14.15.19 (20)
b = 1.2.3.9s.12.13s.16s.19
c = 2.13s.15.16.18
d = 2.3.12.13.15.16

338. 5009 Roderick W Pipe

2314567890E	1	6	7	9	18
34215678E90			a		
4132			s		-
1243			s		-
2134			s	s	-
1423			s		-
4312			s		-
3241			s		-
2314			s	s	-
5463217890E			b		
45236187			c		
4352618709E	s				-
4253					s
412365		s		s	2
235164		-			s
2153					s
243165		s			2
34516278E90			d		
321465		s			2
125463		-			
134265		s			2
435261		-			
412365		s			2
215364		-			
243165		s			2
3154628709E			e		
3451					s
321465		s			2
145263		-			s
1254					s
134265		s			2

a = 1s.2.15.16.18
b = 5.6.9s.12.14.15.16.17.18.19 (20)
c = 1.5.10s.13.14.15.16.22
d = 2.6.13s.15s
e = 2.6.13s.15s.18s

339. 5009 Roderick W Pipe

2314567890E	1	6	7	9	16	18	19
41325678E90	-			s	s	2	
4231						s	
2143					s	-	
1324					s	-	
2314		-					s
1543E276980				a			
4352618709E				b			
345162		-	-				-
423165			-				s
2431					s		
2413				s		-	
4213					s		
42536178E90				c			
4352						s	
324165		-	-			-	
3142						s	
125364		-	-			s	
231465		-	-			-	
5463217890E				d			
234165	6.14s.18						
342561		-			s		-
321465	4s.17.19						
3124				s		2	
31246587E90				e			
135264			s				-
435261			-		s		
124365			-		s	-	-
125364							s
134265						-	-
1253748609E				f			
21536487				g			
1253			s				
132465		s				-	
3124					s		
3142				s		-	
1342					s		

a = 1s.6.10.11.13s.14.15.19 (20)
b = 1.2.3.6.12.13s.18
c = 2.13s.15s.19s
d = 5.7.10s.13s.16s.18s.22
e = 1.2.3.12.13.15s
f = 2.3s.12.15s.18.19
g = 3.4.12.16.17

340. 5009 Roderick W Pipe

2314567890E	1	6	7	9	16	18	19
41325678E90	-			s	s	2	
4231						s	
2143					s	-	
1324					s	-	
2314		-					s
1543E276980				a			
4352618709E				b			
345162		-	-				-
423165			-				s
2431					s		
2413				s		-	
4213					s		
42536178E90				c			
4352						s	
324165		-	-			-	
3142						s	
125364		-	-			s	
231465		-	-			-	
5463217890E				d			
435261				e			
324165		-	-			-	
3142						s	
125364		-	-			s	
231465		-	-			-	
23146587E90				f			
435261				s	s	-	-
314265			-				s
125364		-	-			s	
1352						s	
134265		s					
1253748609E				g			
21536487				h			
1253			s				
132465		s				-	
3124					s		
3142				s		-	
1342					s		

a = 1s.6.10.11.13s.14.15.19 (20)
b = 1.2.3.6.12.13s.18
c = 2.13s.15s.19s
d = 1s.5.7.13s.16s.18s.22
e = 5.14s.16s.18
f = 1.2.3.12.13.15s
g = 2.3s.12.15s.18.19
h = 3.4.12.16.17

341. 5009 Roderick W Pipe
(No 4)

```
2314567890E  1  6  7  9 16 18 19
-------------------------------
34215678E90  1s.2.15.16.18
4132            s        -
1243            s        -
2134            s  s     -
1423            s        -
4312            s        -
3241            s        -
2314            s  s     -
5463217890E        a
45236187           b
4352618709E  s                -
-------------------------------
423165          s             -
2431                       s
2413               s       -
4213                       s
-------------------------------
12536478E90  2.6.13s.15s
134265             B
435261          -
421365             B
23416587     13s.15.16.18.22s
3241                       s
125364             s  s  -  -
12537486     3s.12
2143758609E  2.15.16.19s
215374                        s
1253                       s
13526487     3s.12.18s
1253                          s
134265             B
-------------------------------
```

B

a = 5.6.9s.12.14.15.16.17.18.19 (20)
b = 1.5.10s.13.14.15.16.22

342. 5009 Roderick W Pipe

```
2314567890E  1  6  7 18
-------------------------
31246578E90  1.5.8.9.10.11.13.15s (20)
1432                 s  -
4213                 s  -
2341                 s  -
3214           7s.9s.18
2431                 s  -
4123                 s  -
1342                 s  -
4352618709E  2.6.13s.15s
412365             s    2
215364             -
243165             s    2
345162             -
321465             s    2
125463             -
134265             s    2
1423658790   s           2
1324                     s
1243                     2
1342                     s
14236587E90  -           2
1324                     s
1243                     2
1342                     s
142365879E   s           2
1324                     s
1243                     2
1342                     s
1342658709E  -
```

343. 5009 Roderick W Pipe

```
2314567890E  1  6  9 16 18
-------------------------------
43125678E90  1s.2.9s.15.16.18s
3241                  s  -
2134                  s  -
4132                s  s  s
1243                  s  -
2314                  s  -
5463217890E  5.6.9s.12.14.15.16.17.18.19 (20)
231465       6.9s.14s
4312                s  s  s
3241                  s  -
2134                  s  -
4132                s  s  s
1243                  s  -
13426578E90  -        s
42536187     2.3.6.9s.12.13.15s
-------------------------------
4352                s     |
423165            s     - |
2431                  s   |A
2413                s     |
4213                  s   |
-------------------------------
4253618709E  2.6s.15s
421365               A
13526487E90  2.6.9s.15s
134265               A
1352648709E  2.6s.15s
134265               A
```

344. 5009 Roderick W Pipe

```
2314567890E  1  7  9 16 18 19
-----------------------------
32145678E90  -        s
4231               s  s  -
4132                     s
32415768     6.9s.17s.19s
3241876590E  10s.13.22
31425678E90  1.3.4.6s.12.17.18
3241                     s
3124                     -
13579E24680  3.5.6.8s.9.12.14.15.16 (16)
14236587E90  1.2.4s.5.7s.9s.12 (18)
3451628709E  2.9s.15.16.18.19
312465                   -  -
3421         3.4.12s.17.18
435261       3.4.12s.16.17.19
431265                    s
4213                     s
2314657890E  3.7s.9s.13.14.16.17.18.19 (20)
43526178E90  -     s  s  -  -
125364          -     s  s
324165             s  s  -  -
3124                     -
1543E276980  5.7.11s.13.14.15.16.19 (20)
3152E4       1.2.6.7.9.10.15.16.18
432156E9780  1.2.4.6.9.11 (12)
31426587E90  1.3.7.8.10s.12s.15s.18.21
125364                s  -  -
231465          -        -  -
435261             s  s  -  -
324165          -        -  -
12537486     2.3.9s.12.15.16.18.19
2153748609E  2.15.16
1253                  s
324175             s  s  -  -
24316587     3.4.6.12.16.19s
2134                     s
125364       3.4.12s.16.17.19
1352                     s
124365                   -  -
1342                     s
```

345. 5009 Roderick W Pipe

2314567890E	7	18	19
21345678E90	1.4s.17		
3124	6.19s		
314265		a	
125463		b	
241365	-	-	-
4213	s		
235164	-	-	
312465		c	
1324	s		
345261	-	-	
423165		c	
2431	s		
415362		b	
134265	-	-	-
31426587	2.3.12.13.15.16		
125463		b	
241365		c	
4213	s		
235164	-	-	
312465	-	-	-
1324	s		
345261		b	
423165		c	
2431	s		
415362	-	-	
134265	-	-	-
3142658709E	2.15.16		
125463		d	
241365		e	
4213	s		
235164		d	
312465		e	
1324	s		
345261		d	
423165		e	
2431	s		
415362		d	
134265		e	

a = 5.8s.10.11.13s.15.16 (20)
b = 2.4.6.12s.14.16.18s
c = 2.4.6.12s.14.16.18s.19
d = 3.4.6.12s.16.18s
e = 3.4.6.12s.16.18s.19

Adapted from MVC

14505. 5010 Roderick W Pipe

1234567890E

215374E6890 s1.s2.3.4.5.6.7.8.9.11.13.15.s16.17.18.19.20.21.23.25.27 (28)
42315678E90 1.2.4.6.9.11 (12)
4132 s18
32415768 6.s17.18.19
32415678 s6.s17.s19
2314 s7.s9.18
6745132E980 1.3.4.s6.9.10 (12)
345127698E0 1.s3.s6.9.10 (12)
6712534E098 3.4.s7.9.10 (12)
342516798E0 3.4.6.7.9.10 (12)
214375869E0 2.4.7.9 (10)
3124658709E 1.3.4.s9.12.16.17.18
3421 s18
435261 3.4.s12.16.17.19
431265 s19
4213 3.4.s12.17.18
2314657890E 3.s7.s9.13.14.16.17.18.19 (20)
435261 s9.s16.18.19
134265 7.s16.s19
3241 s7.9.10.s12.13.14.15.16.17.18.19 (20)
2143 s1.s7.9.10
1543E276980 1.7.s11.13.14.15.16.17.19 (20)
4352E1 1.2.6.s10.s15.18
1253E4 1.2.7.s10.15.16.s18
35179E24680 1.2.6.s10.s12.13.15.17.s18.23.24 (24)
97E531 5.6.9.10.s12.14.15.16.17.18.19.20 (20)
5462731890E 1.2.3 (4)
67453128 s2.3.5.6.9.10.s12.13 (14)
23146587E90 1.4.5.6.s8.9.10.12.13.s14.17 (20)
435261 s9.s16.18.19
125364 7.s16.s18
12537486 2.3.12.s15
32416587 2.3.s9.12.15.16.18.19
2431658709E 2.6.15.16.s19
2134 3.4.s12.17.18
125364 3.4.s12.16.17.19
12537486 3.4.12.s17
13526487 3.4.12.17.18
124365 18.19
1342 3.4.s12.17.18
3241658790E 1.2.15.16.s18
31527496E80 s2.3.s12.13.18.19.22

Start from rounds as the last row of a quick six

346. 5015 Roderick W Pipe

```
 1234567890E  1  5  9 14 16 18
 ──────────────────────────────
 523416               a
 ──────────────────────────────
 34215678E90  -  -           -  │
 5421367890E             x      │
 21435678E90  -  -           -  │
 5143267890E             x      │A
 43125678E90  -  -           -  │
 5312467890E             x      │
 12435678E90  -  -           s  │
 ──────────────────────────────
 5243167890E             x
 12345678E90             A
 134527698E0             b
 ──────────────────────────────
 1534                    y      │
 423517          s  s       s   │
 2435                       s   │B
 2543                    y      │
 314527          s  s       s   │
 ──────────────────────────────
 3145286970E  1.8s.10s
 142538          -          s
 423518          -          s
 241538          -     s    s
 413528          -          s
 132548          -          s
 324518          -          s
 231548          -     s    s
 1345276980E  5.8s.10s.21s
 312547          -     s    s
 1325                       s
 312547698E0  1.10s.16s
 1325                    B
 ──────────────────────────────
```

a = 1s.5s.12s.13.14.15.16.17.18.19 (20)
b = 3.12.15.16.19.23 (24)
x = 5s.12.14.15.16.17.18.19 (20)
y = 2.3.4.5.6.7.9.16.20 (20)
Start from rounds as the last row of a quick six

347. 5016 Roderick W Pipe

1342658709E	6	7	18	19	
135264				s	
342165		-		2	
345162				s	
421365		-		2	
425361				s	A
213465		-		2	
215463				s	
124365		s		2	

43526187E90		a	
4253			s
413265	s		2
325164	-		s
3152			s
342165	s		2
245163	-		
231465	s		2
135462	-		
124365	s		2
1253648709E		b	
134265		A	

a = 2.6.15s.18s

b = 2.15s.19s

Start from rounds as the third row of a slow six

348. 5016 Roderick W Pipe

1342658709E	1	7	9	16	18	19
135264						s
342165		-				2
345162						s
431265		s				2
435261						s
312465		-				2
3124657890E				a		
31426578E90	-		s		-	
1342		s				
3214		s			-	
2314		s				
2451638709E				b		
421365		s				2
425361						s
213465		-				2
43215678E90				c		
4132					-	
1324				s	2	
4231			s	s	2	
2314				s	2	
1543E276980				d		
3154628709E				e		
124365		-				2
125364						s
243165		-				2
215463					-	-
134265		-				2

a = 3.13.14.16.17.18.19 (20)
b = 2.13s.15s.18.19s
c = 3.4.5.7.10s.11.12.15.20.22s.23.24 (26)
d = 6.11s.13s.14.15.19 (20)
e = 1.2.3.7s.9s.12.13s.16s.18
Start from rounds as the third row of a slow six

349. 5016 Roderick W Pipe

```
2314567890E  1  6  7  9 16 18 19
_____________________________________
546321               a
41325678E90  1.5.7.9s.18
4231                    s
3142            -       -  -
3214                    -
3124                 s  2
13579E24680  3.5.6.8s.9.12.14.15.16 (16)
3124658709E  1.5s.6.7.10.11.14s.18.19.20 (20)
_____________________________________
345162                  -  -
342165                     s
435261               s     -  A
431265                     s
425361                  -  -
421365                     s
_____________________________________
2314657890E  3.7s.9s.13.14.16.17.18.19 (20)
34216578E90  -          s  -
4132                    s  -
1243                    s  -
4312            -          -  -
3241                    s  -
23416587     2.3.12.13.15.16
1543E276980          b
3152E4       1.2.6.7.9.10.15.16.18
32416587E90  1.2.3.13.18.19
12537486     2.3.9s.12.15.16.18.19
123475869E0  6s.9.10.18
1253748609E  -                  -
324175       3.4.9s.12s.16.17.18.19
24316587     3.4.6.12.16.19s
1342                 A
2314568790E  1s.5.7.8.10.11.13.15s (20)
23145678     1s.3.13.14.16.17.18.19 (20)
_____________________________________
a = 1.5.6.9s.12.14.15.16.17.18.19 (20)
b = 2.3.4.6s.8s.11s.12.13.15s.16s.17.20s.26.28s.30.33.34.35.36.37.38 (38)
```

350. 5028 Roderick W Pipe

```
 2314567890E  6  9 18 19
 ____________________________
 546321       1.5.6.9s.12.14.15.16.17.18.19 (20)
 41325678E90  1.5.7.9s.18
 4231               s
 3142         -     -  -
 3214               -
 3124             s  2
 13579E24680  3.5.6.8s.9.12.14.15.16 (16)
 3124658709E  1.5s.6.7.10.11.14s.18.19.20 (20)
 3421               x
 435261             y
 431265                 s
 4213               x
 2314657890E  3.7s.9s.13.14.16.17.18.19 (20)
 65743218     1.7.9.10.13.14.17.18.22
 34256178     4.5.18.19
 123456E9780  1.5.11s.13.14.15.16.19.21.22.24.26.29.31 (32)
 21436587E90  1.3.7.8.9.10.12s.15s.18.21
 13246578     2.3.12.13.15.16.18
 1234         4s.17
 1243            s  -
 1342657890E  9s.12.14.15.16.17.18.19 (20)
 3142               w
 1243         1s.7s.9.10
 2143               w
 213546E9780  1.7.11s.13.14.15.16.17.19.21.22.24.26.29.31 (32)
 12537486E90  1.3.7s.9.10.12s.15s.18.21
 123475869E0  6s.9.10.18
 1253748609E  1.19
 324175       3.4.9s.12s.16.17.18.19
 24316587     3.4.12.16s.17
 2134               x
 125364             y
 1352               x
 124365              -  -
 1342               x
 2314568790E  1s.5.8s.10.11.13.15.16 (20)
 23145678     1s.3.13.14.16.17.18.19 (20)
 ____________________________
w = 7.8.11s.20.21
x = 3.4.12s.17.18
y = 3.4.12s.16.17.19
```

351. 5033 Roderick W Pipe

1234567890E	
215374E6890	1s.2s.3.4.5.6.7.8.9.11.13.15.16s.17.18.19.20.21.23.25.27 (28)
42315678E90	1.2.4.6.9.11 (12)
4132	18s
3142	6.19s
3241	18s
2314	7s.9s.18
2453E176980	6s.11s.13.14.15.19 (20)
123456E9780	1.2.4.6.9.11 (12)
2413	1.2.4.6.10s.14.16.18.19
32416587E90	1.3.7.8.9.10.12s.15.16.18.21
3214658709E	2.9s.15s.18
213564	3.4.6.12s.16.19
412365	3.4.7.12s.16.17.19
4132	9s.18
135264	3.4.6.12s.16
1253	3.4.12s.17.18
231465	3.4.6.12s.16.18s.19
2314657890E	3.13.14.16.17.18.19 (20)
43526178E90	1.9s.16s.18.19
125364	7.16s.18s
2341657890E	6.7.9s.12.14.15.16.17.18.19 (20)
3142	7s.9.10.12s.13.14.15.16.17.18.19 (20)
1243	1s.7s.9s.12s.13.14.15.16.17.18.19 (20)
1342	1.9s.12.14.15.16.17.18.19 (20)
3241	7s.9.10.12s.13.14.15.16.17.18.19 (20)
2143	1s.7s.9s.12s.13.14.15.16.17.18.19 (20)
1543E276980	1.7.11s.13.14.15.16.17.19 (20)
213546E9780	1.2.4.6.9.11 (12)
12537486E90	1.3.7s.9.10.12s.15s.18.21
123475869E0	6s.9.10.18
1253748609E	1.19
1352	3.4.12s.17.18
314275	3.4.12s.16.17.19s
3241	3.4.12s.17.18
23416587	3.4.12.16.17
342561	3.4.6.12s.16.19
143265	3.4.7.12s.16.17.19
1423	9s.18
435261	3.4.6.12s.16.18s
324165	3.4.6.12s.16.18s.19

Start from rounds as the last row of a quick six

352. 5033 Roderick W Pipe

2314567890E	1	9	16	18
41325678E90	-	s	s	2
1324			s	2
4231		s	s	2
2314			s	2
35179E24680	1s.5s.7.8.11s.14.16s.17.19s.20 (20)			
1543E276098	1s.2.3.5.6.9.11.12.13 (14)			
4352618709E	2.3.6.12.13s.18			
423165	6s.18			
2431	3.4.12s.16.17			
2413		s		-
4213	3.4.12s.16.17			
125364	6			
1253647890E	3.13.14.16.17.18.19 (20)			
124365	1.6s.12.14.15.16.17.18.19 (20)			
2143	7.8.11s.20.21			
2341	1.9s.12.14.15.16.17.18.19 (20)			
3241	1s.7s.10s			
3142	8.9.11s.20.21			
1342	1.7s.12.14.15.16.17.18.19 (20)			
3214	1s.7s.10s.18			
2314	1.7s.12.14.15.16.17.18.19 (20)			
32146587E90	1.2.3.12.13.15.16			
2314			s	
2341		s		-
2143				s
21537486	2.3.6.7.12.15.16			
123475869E0	6.7.9.10.18			
12537486E90	1s.19			
2153748609E	2.15.16			
1253	3.4.12s.16.17			
21536487	3.4.12.16.17			
132465	6.7.18			
3124	3.4.12s.16.17			
3142		s		-
1342	3.4.12s.16.17			

353. 5040 Roderick W Pipe

```
2314567890E
-----------

2314568709E  10s.13s.15s.22s
23415687E09  1.9s.18
236154       6s
234165       5.14s.19s
2314         9s.18
1463527890E    a
142356       19s
146253       19
143256       19s

-----------
4-part
a E 3.7s.9s.12.15.16.19.20.23.24.26.28.31.33 (34)
```

from an idea by R C Kippin

354. 5045 Roderick W Pipe

2314567890E	1	9	16	18	19	
41325678E90	-	s	s	2		
1324			s	2		
4231		s	s	2		
2314			s	2		
1543E276980			a			
213546E9780			b			
12536487E90			c			
134265				-	-	
12537486	2.3.12.15s.18.19					
1253748609E	2.15s					
134275	3.4.12s.17.18.19s					
31546287	3.4.12.16.17.19					
312465					s	
345162				-	-	
342165					s	
435261			s		-	A
431265					s	
425361				-	-	
421365					s	
2314657890E			d			
2341	1.9.10.13s.18.22					
3241	1s.7s.10s					
3142		s				
1342			e			
1243	1s.9.10					
2143	7s					
21436587			f			
2451638709E	4s.10s.17.19					
134265			A			

a = 1s.6.10.11.13s.14.15.19 (20)
b = 1.2.4.6.9.11 (12)
c = 1s.3.7.8.9.10.12s.18.21
d = 3.7s.9s.13.14.16.17.18.19 (20)
e = 1.7s.12.14.15.16.17.18.19 (20)
f = 1.12.14.16s.17.18.19 (20)

355. 5050 Roderick W Pipe

3241658709E	6	9	16	18	19
315462		s			-
3451				s	
312465				-	-
3421				s	
435261			s		-
4253				s	
431265				-	-
4213				s	
13246578E90	7.9s.	13.	17.	31 (32)	
3124			s		
3142		s		-	
1342			s		
435261	-				
423165	s			-	
2431			s		
2413		s		-	
4213			s		
432156	5.8.9.	10.	11.	13s.	15.16 (20)
4132				-	
1324			s	2	
4231		s	s	2	
2314			s	2	
1543E276980	6.11s.	13s.	14.	15.	19 (20)
31426587E90	1.2.3.6s.	9s.	13.	16s.	19
1342			s		
3214			s	-	
2314			s		
2451638709E	2.9s.	15s.	19		
2154				s	
243165				-	-
2134				s	
125364			s		-
1352				s	
124365				-	-
1342				s	

Start from rounds as the fifth row of a slow six

356. 5050 Roderick W Pipe

2314567890E

546321 1.5.6.9s.12.14.15.16.17.18.19 (20)
41325678E90 1.5.7.9s.18
4231 18s
3142 6.18.19
3214 18
3241 9s.18
3124 18
13579E24680 3.5.6.8s.9.12.14.15.16 (16)
14236587E90 1.2.4s.5.7s.9s.12 (18)
2314 6.18.19
3214658709E 2.15.16
213564 3.4.6.12s.16.19
412365 3.4.7.12s.16.17.19
4132 9s.18
135264 3.4.6.12s.16
1253 3.4.12s.17.18
231465 3.4.6.12s.16.18s.19
2314657890E 3.13.14.16.17.18.19 (20)
43526178E90 1.9s.16s.18.19
125364 7.16s.18s
1352 18s
3142657890E 6.7.12.14.15.16.17.18.19 (20)
3241 9.10.12s.13.14.15.16.17.18.19 (20)
23416587E90 1.2.3.12.13.15.16
3241 16s
1543E276980 2.3.4.6s.7.8.11s.12.13.15s.16s.17.20s.26.28s.30.33.34.35.36.37.38 (38)
213546E9780 1.2.4.6.9.11 (12)
12537486E90 1.3.7s.9.10.12s.15s.18.21
123475869E0 6s.9.10.18
1253748609E 1.19
324175 3.4.9s.12s.16.17.18.19
23416587 3.4.12.16.17
342561 3.4.6.12s.16.19
143265 3.4.7.12s.16.17.19
1423 9s.18
435261 3.4.6.12s.16.18s
324165 3.4.6.12s.16.18s.19
3124568790E 1s.5.7.8.10.11.13s.15 (20)
31245678 1s.3.13.14.16.17.18.19 (20)

357. 5057 Roderick W Pipe

2314567890E	1	9	16	18	19
41325678E90	-	s	s	2	
1324			s	2	
4231		s	s	2	
2314			s	2	
1543E276980			a		
4352618709E			b		
421365				-	-
425361					s
431265				-	-
345162			s		-
342165					s
315462				-	-
312465					s
3124657890E			c		
14326578E90	-		s	-	
4213			s	-	
2341			s	-	
2431			d		
4123			s	-	
1342			s	-	
3214			s	-	
123456E9780			e		
21436587E90			f		
12537486			g		
1253748609E			h		
214375			i		
24516387			j		
243165					s
215463				-	-
213465					s
125364			s		-
124365					s
135264				-	-
134265					s

a = 1s.6.10.11.13s.14.15.19 (20)
b = 1.2.3.6.12.13s.18
c = 3.13.14.16.17.18.19 (20)
d = 4s.17
e = 6.7.9s.11s.13.14.15.16.17.19.21.22.24.26.29.31 (32)
f = 1.3.7.8.9.10.12s.15s.18.21
g = 2.3.12.15.16.19s
h = 2.15s
i = 3.4.12s.16.17.19s
j = 3.4.12.17.19

358. 5057 Roderick W Pipe

```
 1234567890E
 ___________
215374E6890  1s.2s.3.4.5.6.7.8.9.11.13.15.16s.17.18.19.20.21.23.25.27 (28)
42315678E90  1.2.4.6.9.11 (12)
4132         18s
3142         6.19s
3241         18s
2314         7s.9s.18
2453E176980  6s.11s.13.14.15.19 (20)
123456E9780  1.2.4.6.9.11 (12)
2413         1.2.4.6.10s.14.16.18.19
32416587E90  1.3.7.8.9.10.12s.15.16.18.21
3214658709E  2.9s.15s.18
213564       3.4.6.12s.16.19
412365       3.4.7.12s.16.17.19
4132         9s.18
135264       3.4.6.12s.16
1253         3.4.12s.17.18
231465       3.4.6.12s.16.18s.19
2314657890E  3.13.14.16.17.18.19 (20)
43526178E90  1.9s.16s.18.19
125364       7.16s.18s
2341657890E  6.7.9s.12.14.15.16.17.18.19 (20)
3142         7.8.9s.11s.20.21
1243         1s.7s.9s.12s.13.14.15.16.17.18.19 (20)
1342         1.9s.12.14.15.16.17.18.19 (20)
3241         7.8.9s.11s.20.21
2143         1s.7s.9s.12s.13.14.15.16.17.18.19 (20)
1543E276980  1.7.11s.13.14.15.16.17.19 (20)
213546E9780  1.2.4.6.9.11 (12)
12537486E90  1.3.7s.9.10.12s.15s.18.21
123475869E0  6s.9.10.18
1253748609E  1.19
1352         3.4.12s.17.18
314275       3.4.12s.16.17.19s
3241         3.4.12s.17.18
23416587     3.4.12.16.17
342561       3.4.6.12s.16.19
143265       3.4.7.12s.16.17.19
1423         9s.18
435261       3.4.6.12s.16.18s
324165       3.4.6.12s.16.18s.19
 ___________
Start from rounds as the last row of a quick six
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359. 5057 Roderick W Pipe

```
2314567890E  1  9 16 18 19
-----------------------------
41325678E90  -  s  s  2
1324           s  2
4231        s  s  2
2314           s  2
341256E0987  1.2.7s.9.10.12.13.14.16.17.18.19s (20)
1543E276098  1.2.4.7.9 (10)
4352618709E  2.3.6.12.13s.18
421365                -  -
425361                   s
431265                -  -
345162             s     -
3154                  s
342165                -  -
3124                  s
3124657890E  3.13.14.16.17.18.19 (20)
14326578E90  -     s  -
4213               s  -
2341               s  -
2431         4s.17
4123               s  -
1342               s  -
3214               s  -
32146587     2.3.12.13.15s
1234         6.19s
125364                   -
124365                   s
1342                  s
2154638709E  2.9s.15.16.19
243165                -  -
245163                   s
213465                -  -
125364             s     -
1352                  s
124365                -  -
1342                  s
```

360. 5060 Roderick W Pipe

```
 1234567890E  6 16 18 19
 ____________________________
 24135678E90  1s.2.15.16.18
 2314              s
 1324         -       s
 1423              s
 4132         7s.9s.18
 4231              s
 3241         -       s
 3142              s
 13579E24680  3.5.6.8.12.14.15.16 (16)
 3154628709E  1.4.5.6.7.10.11.14s.18.19.20 (20)
 312465            s
 345162          -   -
 342165            s
 435261       s    -
 431265            s
 425361          -   -
 421365            s
 2314657890E  3.7s.9s.13.14.16.17.18.19 (20)
 34216578E90  1.16s.18
 4132            s  -
 1243            s  -
 1423         4s.17
 4312            s  -
 3241            s  -
 2134            s  -
 12536487     2.3.12.13.15.16.19
 124365            s
 1342         9s
 2314         9s.16s.18
 2451638709E  2.15s.18s.19
 243165            s
 215463          -   -
 213465            s
 125364       s    -
 124365            s
 135264          -   -
 134265            s
 3124568790E  1s.5.7.8.10.11.13s.14.15 (20)
 31245678     1s.3.13.14.16.17.18.19 (20)
 ____________________________
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Start from rounds as the last row of a quick six

361. 5064 Roderick W Pipe

2314567890E	
546321	1.5.6.9s.12.14.15.16.17.18.19 (20)
41325678E90	1.5.7.9s.18
4231	18s
3142	6.18.19
3214	18
3241	9s.18
3124	18
13579E24680	3.5.6.8s.9.12.14.15.16 (16)
14236587E90	1.2.4s.5.7s.9s.12 (18)
3451628709E	2.9s.15.16.18.19
312465	18.19
3421	3.4.12s.17.18
435261	3.4.12s.16.17.19
431265	19s
4213	3.4.12s.17.18
2314657890E	3.7s.9s.13.14.16.17.18.19 (20)
52617384E90	1.4.8s.10s.12.13.17 (20)
5162	18s
4152637890E	6.9.10.13.14.15.18.19.22
43526178E90	1.8.21s
125364	7.16s.18s
324165	9s.16s.18.19
31426587	2.3.12.13.15s.18s
3241	18s
1543E276980	2.3.4.6s.7.8.11s.12.13.15s.16s.17.20s.26.28s.30.33.34.35.36.37.38 (38)
213546E9780	1.2.4.6.9.11 (12)
12537486E90	1.3.7s.9.10.12s.15s.18.21
123475869E0	6s.9.10.18
1253748609E	1.19
324175	3.4.9s.12s.16.17.18.19
24316587	3.4.6.12.16.19s
2134	3.4.12s.17.18
125364	3.4.12s.16.17.19
1352	3.4.12s.17.18
124365	18.19
1342	3.4.12s.17.18
3241658790E	1.2.15.16.18s
231456	5.7.8.10.11.13s.14.15 (20)
23145678	1s.3.13.14.16.17.18.19 (20)

The novelty here is the double-tittums effect from the course 51627384E90: tittums on the front 8 followed by tittums on the back 8 two sixes later

362. 5064 Roderick W Pipe

2314567890E	
546321E0987	1.2.5.6.9s.12s.13.14.15.16.17.18.19s (20)
5463217890E	8s.15s.21
41325678E90	1.5.7.9s.18
1243	16s.18
4352167890E	5.9s.12.14.15.16.17.18.19 (20)
42315678E90	1.5.14s.18
3241	6.19s
3124	18
13579E24680	3.5.6.8s.9.12.14.15.16 (16)
3124658709E	1.5s.6.7.10.11.14s.18.19.20 (20)
345162	18.19
342165	19s
435261	3.4.12s.16.17.19
431265	19s
4213	3.4.12s.17.18
2314657890E	3.7s.9s.13.14.16.17.18.19 (20)
65743218	1.7.9.10.13.14.17.18.22
34256178	4.5.18.19
123456E9780	1.5.11s.13.14.15.16.19.21.22.24.26.29.31 (32)
2413	1.2.4.6.10s.14.16.18.19
23416587E90	1.3.7.8.10s.12s.15.16.18.21
1543E276980	2.3.4.6s.8s.11s.12.13.15s.16s.17.20s.26.28s.30.33.34.35.36.37.38 (38)
43520186E97	1.2.3.6.18
32416587E90	7.13.18.19
12537486	2.3.9s.12.15.16.18.19
123475869E0	6s.9.10.18
1253748609E	1.19
324175	3.4.9s.12s.16.17.18.19
24316587	3.4.6.12.16.19s
215463	18.19
213465	19s
125364	3.4.12s.16.17.19
1352	3.4.12s.17.18
124365	18.19
1342	3.4.12s.17.18
3241658790E	1.2.15.16.18s
231456	5.7.8.10.11.13s.14.15 (20)
23145678	1s.3.13.14.16.17.18.19 (20)

363. 5069 Roderick W Pipe

2314567890E	1	6	7	9	10	16	18
41325678E90	-			s		s	2
1324						s	2
4231				s		s	2
2314						s	2
1543E276980				a			
4523618709E				b			
4352				p			
423165		s					-
2431				q			
2413				s			-
4213				q			
125364		-					
1253647890E				c			
124365				w			
2143				d			
2341				x			
3241	s		s		s		
3142				e			
1342				y			
435261	s	-			s		
321465				z			
2314				y			
32146587E90				f			
2314						s	
2341				s			-
2143							s
21537486				g			
1253						s	
2153748609E				h			
1253				q			
21536487				r			
132465		-	-				-
3124				q			
3142				s			-
1342				q			

a = 1s.6.10.11.13s.14.15.19 (20)
b = 1.2.3.6.12.13s
c = 3.13.14.16.17.18.19 (20)
d = 7.8.11s.20.21
e = 8.9.11s.20.21
f = 1.2.3.12.13.15.16
g = 2.3.6.7.12.15.16
h = 2.15.16
p = 3.4.12s.17.18s
q = 3.4.12s.16.17
r = 3.4.12.16.17
w = 1.6s.12.14.15.16.17.18.19 (20)
x = 1.9s.12.14.15.16.17.18.19 (20)
y = 1.7s.12.14.15.16.17.18.19 (20)
z = 1.6.7.9s.12.14.15.16.17.18.19 (20)

364. 5069 Roderick W Pipe

2314567890E	
546321	1.5.6.9s.12.14.15.16.17.18.19 (20)
41325678E90	1.5.7.9s.18
4231	18s
3142	6.18.19
3214	18
3241	9s.18
3124	18
13579E24680	3.5.6.8s.9.12.14.15.16 (16)
3124658709E	1.5s.6.7.10.11.14s.18.19.20 (20)
345162	18.19
342165	19s
435261	16s.19
431265	19s
4213	18s
2314657890E	3.7s.9s.13.14.16.17.18.19 (20)
13246578E90	1.6.19s
3142	7s.9s.18
3241	18s
3124	18
1543E276980	5.7.11s.13.14.15.16.19 (20)
1352E4	1.2.6.7.10s.15.16.18
12530486E97	1.2.3.4.5.14s.17.18
2153	4.5.14s.16.17
425301	4.5.8.14s.16.17.21s
4352	4.5.14s.17.18
4352E176098	12s.15s
4253E176980	2.9.10.15s
1253E4	1.2.7.10s.15.16
12536487E90	1.2.3s.13.15s
231465	6.7.18
2341	9s.18
3241	16s
2154638709E	2.6.15.16.18s
243165	18.19
2134	18s
125364	16s.19
124365	19s
135264	18.19
134265	19s

365. 5080 Roderick W Pipe

```
 1342658709E  1 16 18 19
 ──────────────────────────
 1243657890E        a
 13526478E90  -      -   -
 134265               s
 125364              -   -
 234156             b
 3241            s
 ──────────────────────────
 2154638709E        c      │
 243165              -   -  │A  │B
 245163                 s   │
 213465              -   -  │
 ──────────────────────────
 2431657890E        a
 21346578E90  -      s
 245163              -   -
 413256             b
 1432            s
 ──────────────────────────
 4213658709E        A
 41235678E90        B
 1352648709E        c
 124365              -   -
 125364                 s
 654321             d
 213547698E0        e
 ──────────────────────────
```

a = 3.9s.13.14.16.17.18.19 (20)
b = 5.14s.16s.18.19
c = 2.4.5.7.12.13.15s.16.17.22.23 (24)
d = 6.7s.14s
e = 1.2s.4.9.11.12s (12)
Start from rounds as the third row of a slow six

366. 5081 Roderick W Pipe

2314567890E	1	7	9	18	19
243156789E0			a		
4123		s		-	
1432		s	s	-	
4213		s		-	
3251648709E			b		
321465					2
2431		s		-	3
4213		s	s	-	3
2341		s		-	3
3124658790E	s	s		-	
1342		s	s	-	
3214		s		-	
2341		s	s	-	
31246587E90	-	s		-	
1342		s	s	-	
3214		s		-	
2341		s	s	-	
312465879E0	s	s		-	
1432		s		-	
4123		s	s	-	
1342		s		-	
3214		s		-	
2341		s	s	-	
3124658709E	-	s		-	3
1432		s		-	
4123		s	s	-	
1342		s		-	3

a = 1.10s.18
b = 6.7.9s.12.14s.17.22.24.26s.27.31 (32)

367. 5090 Roderick W Pipe

132547698E0

5463217890E 1s.3.5.12.18s.19.20.23 (24)
41325678E90 1.5.7.9s.18
4231 18s
3142 6.18.19
3214 18
3241 9s.18
3124 18
13579E24680 3.5.6.8s.9.12.14.15.16 (16)
3124658709E 1.5s.6.7.10.11.14s.18.19.20 (20)
345162 18.19
342165 19s
435261 16s.19
431265 19s
4213 18s
2314657890E 3.7s.9s.13.14.16.17.18.19 (20)
13246578E90 1.6.19s
3142 7s.9s.18
3241 18s
3124 18
1543E276980 5.7.11s.13.14.15.16.19 (20)
1352E4 1.2.6.7.10s.15.16.18
12530486E97 1.2.3.4.5.14s.17.18
2153 4.5.14s.16.17
425301 4.5.8.14s.16.17.21s
4352 4.5.14s.17.18
4352E176098 12s.15s
4253E176980 2.9.10.15s
1253E4 1.2.7.10s.15.16
12536487E90 1.2.3s.13.15s
231465 6.7.18
2341 9s.18
3241 16s
2431658709E 2.6.15.16.19s
2134 18s
125364 16s.19
124365 19s
135264 18.19
134265 19s
2143658790E 1s.9s.16s
2143658709E 1s

Start from rounds as the fifth row of a quick six

368. 5093 Roderick W Pipe

2314567890E	1	9	16	18	19	
2314567809E	s					
43215678E90			a			
4132				-		
1324			s	2		
4231		s	s	2		
2314			s	2		
123456E9780			b			
21436587E90			c			
3154628709E			d			
312465					s	
345162				-	-	
342165					s	
435261			s		-	A
431265					s	
425361				-	-	
421365					s	
2314657890E			e			
2341			f			
3241			g			
3142		s				
1342			h			
1243		1s.9.10				
2143			i			
213546E9780			j			
12537486E90			k			
1253748609E		2.15s				
214375			l			
24516387			m			
134265			A			

a = 1.9s.13s.16s.18.22
b = 6s.11s.13.14.15.19.21.22.24.26.29.31 (32)
c = 1.3.7.8.9.10.12s.15s.18.21
d = 2.7s.9s.15.16.19
e = 3.7s.9s.13.14.16.17.18.19 (20)
f = 1.9.10.13s.18.22
g = 1s.7s.12.13s.14.15.16.17.18.19 (20)
h = 1.7s.12.14.15.16.17.18.19 (20)
i = 7s.10s.12.13s.14.15.16.17.18.19 (20)
j = 1.7.11s.13.14.15.16.17.19.21.22.24.26.29.31 (32)
k = 1.3.7s.9.10.12s.15s.18.21
l = 3.4.12s.16.17.19s
m = 3.4.12.17.19

369. 5094 Roderick W Pipe

1234567890E	
215374E6890	a
42315678E90	1.2.4.6.9.11 (12)
4132	18s
3241	6.18.19
32415768	6s.17s.19s
3241876590E	10s.13.22
31245678E90	1.3.4.6.7.12.16.17.18
13579E24680	3.5.6.8s.9.12.14.15.16 (16)
1324658709E	1.5s.6.7.10.11.18.19.20 (20)
1423	3.4.12s.17.18
435261	3.4.6.12s.16.18s
241365	3.4.9s.12s.16.17.19s
2314	3.4.12s.17.18
2314657890E	3.13.14.16.17.18.19 (20)
6574321E098	7.9.10.14s.17.18.22s
6758341290E	4.5.10s.13.14.17.20
12536478E90	1.4s.5.7s.11s.16.18
2341657890E	6.7.9s.12.14.15.16.17.18.19 (20)
3142	7.8.9s.11s.20.21
1243	1s.7s.9.10
1342	1.9s.12.14.15.16.17.18.19 (20)
3241	7.8.9s.11s.20.21
2143	1s.7s.9s.12s.13.14.15.16.17.18.19 (20)
1543E276980	1.7.11s.13.14.15.16.17.19 (20)
43520186E97	1.2.3.6.18
2453E176098	9s.12s.15.16
123456E9780	2.4.6.9.11 (12)
2413	1.2.4.6.10s.14.16.18.19
32416587E90	1.3.7.8.9.10.12s.15.16.18.21
12537486	2.3.9s.12.15.16.18.19
2153748609E	2.15.16
1253	3.4.12s.16.17
324175	3.4.9s.12s.16.17.18.19
31426587	3.4.12.17.18
4132	6.19s
4231	3.4.12s.17.18
215364	3.4.6.12s.16.18s
1253	3.4.12s.16.17
324165	3.4.9s.12s.16.17.18.19
3152749680E	1s.3.12.18.19
31527496E80	1

a = 1s.2s.3.4.5.6.7.8.9.11.13.15.16s.17.18.19.20.21.23.25.27 (28)
Start from rounds as the last row of a quick six

370. 5100 Roderick W Pipe

```
2314567890E  1  6  7  9 16 18 19
-----------------------------------
41325678E90  -        s  s  2
1324                  s  2
123456E9780  6.11s.13.14.15.19.21.22.24.26.29.31 (32)
21436587E90  1.3.7.8.9.10.12s.15s.18.21
1352648709E  2.15.16.18.19
1253                  s
234165          -  -  s
2143                  s
4123         1s.6.10s.19s
4321                  s
4321657890E  3.13.14.16.17.18.19 (20)
41236578E90  -                 s
2341            -              -  -
215364                         -  -
1253            -  -              s
214365          -  -
213546E9780  7.11s.13.14.15.16.17.19.21.22.24.26.29.31 (32)
12537486E90  1.3.7s.9.10.12s.15s.18.21
1253748609E  2.15s
42536187     3.4.7.12.16.17
4352                  s
321465          -  -  s
3412                  s
1432            -              s
1234                  s
1234657890E  3.13.14.16.17.18.19 (20)
14326578E90  -                 s
3214            -              -  -
3412                  s
425361          -  -  s
4352                  s
431256       5.14s.19s
4231                           -
2314                     s  2
2314567890E  1s.10s.12.14.15.16.17.18.19 (20)
```

371. 5100 Roderick W Pipe

```
2314567890E  1  9 16 18 19
-----------------------------
41325678E90  -  s  s  2
1324            s  2
1543E276980  6s.11s.13s.14.15.19 (20)
4352618709E  1.2.3.6.12.13s.18
4253         3.4.12s.17.18
431265                  -  -
4213                    s
245163             s       -
2154         3.4.12s.17.18
243165                  -  -
2134                    s
2431657890E  3.9s.13.14.16.17.18.19 (20)
21346578E90  -          s
125364               s     -
124365                     s
1342                    s
13426587     2.3.12.13.15s
1253648709E  2.7s.15.16.18.19
1352         3.4.12s.17.18
124365                  -  -
1342                    s
315462       1s.10s.16s.19
3451         3.4.12s.17.18
312465                  -  -
3421                    s
3124657890E  3.9s.13.14.16.17.18.19 (20)
34516278E90  -          -  -
342165                     s
435261               s     -
421365                  -  -
4312                    s
425361                  -  -
431256       5.14s.18.19
4231                    -
2314                s  2
2314567890E  1s.10s.12.14.15.16.17.18.19 (20)
```

372. 5100 Roderick W Pipe

2314567890E	1	9	16	18	19
41325678E90	-	s	s	2	
1324			s	2	
1543E276980			a		
4352618709E			b		
4253				s	
431265				-	-
4213				s	
245163			s		-
2154				s	
243165				-	-
2134				s	
2154637890E			c		
24316578E90	-			-	-
2134				s	
125364			s		-
124365					s
1342				s	
1253648709E			d		
1352				s	
124365				-	-
1342				s	
315462			e		
3451				s	
312465				-	-
3421				s	
3451627890E			c		
31246578E90	-			-	-
3421				s	
435261			s		-
431265					s
4213				s	
425361	6s				
431256			f		
4231				-	
2314			s	2	
2314567890E			g		

a = 6s.11s.13s.14.15.19 (20)
b = 1.2.3.6.12.13s.18
c = 3.6s.13.14.16.17.18.19 (20)
d = 2.13s.15s.18.19
e = 1s.7s.10s.19
f = 5.14s.18.19
g = 1s.10s.12.14.15.16.17.18.19 (20)

373. 5100 Roderick W Pipe

1234567890E	
098E6745312	1s.2s.3.4.5.6.7.9s.11.13 (14)
215374E6809	1.2s.3.4.5.6.7.9.11.13 (14)
42315678E90	1s.2.4.6.9.11 (12)
4132	18s
3142	6.19s
3241	18s
3124	18
13579E24680	3.5.6.8s.9.12.14.15.16 (16)
E0869473521	1s.2.4s.5.7s.9.10.14s (14)
4352E176980	1.4s.8s.10s.11.12.13.14.17.18.19.20.21.22
3142E5	1.2.7.9.10.15s.18.19
12530486E97	1.2.3.6.7.18s
3214658709E	6s.9s.12.13s.16s.18
213564	3.4.7.12s.17.19
412365	3.4.7.12s.16.17.19
4132	9s.18
135264	3.4.6.12s.16
1253	3.4.12s.17.18
231465	3.4.6.12s.16.18s.19
2314657890E	3.13.14.16.17.18.19 (20)
31246578E90	1.2.4.6.12s.14.16.19s
3142	9s.18
3241	18s
12436587	2.3.7s.9s.12.13.15.16
2314	2.4.6.12s.14.16.18.19
E0869473512	2.3.4.6s.8s.11s.12.13.16s (16)
1543E276980	1.4s.10.12s.14.17.18.19.20.21.22
3152E4	1.2.6.7.9.10.15.16.18
32416587E90	1.2.3.13.18.19
12537486	2.3.9s.12.15.16.18.19
123475869E0	6s.9.10.18
1253748609E	1.19
324175	3.4.9s.12s.16.17.18.19
23416587	3.4.12.16.17
342561	3.4.7.12s.17.19
143265	3.4.7.12s.16.17.19
1423	9s.18
435261	3.4.6.12s.16.18s
324165	3.4.6.12s.16.18s.19
1234568790E	1s.5.8s.10.11.13.15.16 (20)
12345678	1s.3.13.14.16.17.18.19 (20)

Start from rounds as the last row of a quick six

374. 5100 Roderick W Pipe

2314567890E	1	7	9	18
32418765		a		
3142				s
3214				-
2314		s		
23145768		3s.12		
32145768E90	-	s		
2341		s	s	-
3241		s		
324156E9780		b		
3124560987E		c		
3214		3.4.12s.17		
3142		3.4.9s.12s.17		
3241		3.4.12s.17.18		
314256E9780		1.2.8.9.13s.21.22		
315246		1.5.10s.13.14.22		
321456		1.5.10s.13.14.18.22		
2314		1.10s.13s.16s.22		
3241567890E		d		
213456879E0		p		
2134567890E		q		
142356879E0		p		
1423567890E		q		
431256879E0		p		
4312567890E		q		
324156879E0		p		
21345687E90	s	s		-
1423		s		-
4312		s		-
3421		s	s	-
4132		s		-
1243		s		-
2314		s		-
342156879E0	s	s		-
3421567890E		q		
413256879E0		p		
4132567890E		q		
124356879E0		p		
1243567890E		q		
231456879E0		p		
2314567890E		q		

a = 1.4s.6.7.9.10.13.17s.18.22
b = 4.5.7s.9.12.14.15.16.17.18 (18)
c = 1.2.3.4.12s.17s.18
d = 1.2.4.6.7.8.10s.12.15.16.19s.20.22 (24)
p = 1.3.4.5.6.7.9s.13.14.16 (20)
q = 1.3.13.14.16.17.18.19 (20)

adapted from an idea by Stuart Hutchieson

375. 5280 Roderick W Pipe

1342658709E	1	16	18	19
1243657890E			a	
13526478E90	-		-	-
134265				s
125364			-	-
234156			b	
3241		s		
2154638709E			c	
243165			-	-
245163				s
213465			-	-

4-part
a = 3.9s.13.14.16.17.18.19 (20)
b = 5.14s.16s.18.19
c = 2.4.5.7.12.13.15s.16.17.22.23 (24)
Start from rounds as the third row of a slow six
Reduce to 5016 by calling 18s for 18.19.19s in two places

376. 5019 Charles H P Pipe-Wolferstar

2314567890E	1	6	7	18	19	
14235678E90	-	-		-	-	
4123			s			A
2341		-		-	-	
316254			s	-	-	B
324156				-	-	
4132		-		-	-	
3214			A			
23145679E80			a			
4123			3A			
431256E9780			b			
3421			2A			
43216587E90			c			
1243			3A			
2143			B			
4321658709E			d			
1243			3A			
2143			B			

a = 7.8.21
b = 3.12s.18
c = 1s.3.7.8.10s.12s.21
d = 2.6.15s.18.19

377. 5043 Charles H P Pipe-Wolferstan

2314567890E	6	7	18	19
21436578E90			a	
4321	-		-	-
3421		s		
2134	-		-	-
1234		s		
34156287			b	
342165				-
4321		s		
2143	-		-	-
1243		s		
4312	-		-	-
3412		s		
1234	-		-	-
243156			c	
3124	-		-	-
1324		s		
2413	-		-	-
4213		s		
1342	-		-	-
3142		s		
13245678			d	
2413	-		-	-
4213		s		
1342	-		-	-
3142		s		
4231	-		-	-
2431		s		
3124	-		-	-
31245679E80			e	
2134	-			s
213456E9780			f	
1234		s		
1234658709E			g	
3412	-		-	-
4312		s		
1243	-		-	-
215364	-	-		
214365	s			

a = 1s.4.6.7.8.10.12.15s.16.19.21.23s.27 (28)
b = 2s.6.9s.13s.15s.19
c = 2.3.7.8.9.10.12s.15s.21s
d = 2s.7s.9s.13s.15s.18
e = 8s.21
f = 3.12s
g = 1.2s.5s.7.9.10.11.13s.15s.17s.19 (20)

378. 5001 John Pladdys

```
1234567890E  1  5  6  9 18 19
-----------------------------
2134              a
2143                s  -
4123             -        s
4132                s  -
3142             -        s
41325678E90   -  -        s
-----------------------------
416352                    -
412356                    s
2143             -        s  A
216453                    -
213456                    s
3124             -        s
-----------------------------
312456789E0   s
3124568790E          b
2134568709E   s  -        s
2143                s  -
4123             -        s
4132                s  -
3142             -        s
316254                    s
614253789E0          c
41326578E90   s  -        s
3124                 A
315264                    -
3152648790E          d
5123648709    s  -        2
2153             -        s
214563                    -
213564                    s
413562           2        s
1342658790E          e
1342658709E   s
-----------------------------
a = 1s.3.4.5.7.9s.11.13.16.18s.22s.23.25s (25)
b = 1s.12.14.16s.17.18.19 (20)
c = 6.12.14.16s.17.18.19 (20)
d = 12.14.16s.17.18.19 (20)
e = 6.10s.16s.19
```

Start from rounds as the last row of a slow six

15097. 5005 John Pladdys
(arr J Hyden)

1234567890E	6	7	9	18	19	
123456E9780			a			
3412	-			-	-	
4312		s				
1243	-			-	-	
2143		s				
21435678E90			b			
1324		s		-		A
3412		s		-		
4231		s		-		
2413		s	s	-		
4321		s		-		
3142		s		-		
1234		s		-		
1234568709E			c			
2143			A			
216354	s					
21436578E90			d			
1234			A			
1234658709E			c			
2143			A			

a = 1s.3.4.5.6.7.9.11s.20 (20)
b = 3.8s.12s.21
c = 2.13s.15s
d = 2.5s.6.13s.14.15
Start from rounds as the last row of a quick six

379. 5007 John Pladdys

2314567890E	1	6	19
31245678E90		a	
2134		-	s
216354			-
214563		b	
2154		s	2
213465		s	
213564		s	-
3152		-	2
314265		s	
314562		s	-
412563		-	3
4152		s	2
5132648790E		c	
5123648709	s	s	2
2135		-	2
314562		-	3
412563		-	3
413562		s	3
312564		-	3
214563		-	3
214365		s	-

a = 1.6s.7.19s
b = 5.14s.19
c = 6.12.14.16s.17.18.19 (20)

380. 5007 John Pladdys

2314567890E	1	5	6	19		
4136528709E			a			
412356				-		
412356789E0			x		A	
2134567809E	-		-	2		
213456879E0			x		B	C
3126548709E	-		-	-		
312456			s	-		
41325687			2A			
31425678			B			
314256879E0			x			
3164528709E	-			-		
6143			-	2		
413265		-		2		
214365879E0			C			
2143658709E	-					

a = 1s.6s.7.9s.13s.15.16.18.22s
x = 12.14.16s.17.18.19 (20)

381. 5014 John Pladdys

```
2314567890E  1  6 19
_____________________
2153748609E     a
214375             s
3142            x
315274             s
31427586E90  2.15s.19s
315274             s
2153            x
214375             s
21536487     3s.12.19s
214365             s
3142            x
315264             s
31426578     2s.13s.15s.19s
_____________________
4132            -  s |
415362             - |
412365             s |
2143            -  s |A
215463             - |
213465             s |
3124            -  s |
_____________________
3124658790E     b
3152648709E  s     -
314265             s
4132            -  s
415362             -
412365             s
215364          -  3
31425678E90     c
3124            A
3124567890E     z
_____________________
a = 1s.2.3.4.6.7.8.10.11.12.15s.16.20.22s.24.25.26 (26)
b = 12.14.16s.17.18.19 (20)
c = 2.5.9s.13.14.15.16.18.19
x = 6.7.9s.16s.19s
z = 12.14.15.16.17.18.19 (20)
```

382. 5051 John Pladdys

2314567890E	1	5	6	19	
413256789E0			a		
31425678E90	s		-	s	
316452				-	A
312456				s	
2134			-	s	
216354				-	
214356				s	
4123			-	s	
4123568790E			b		
2143568709E	s		-	s	
4132			A		
416253				s	
613254789E0			c		
31426578E90	s	-		s	
4132			-	s	
3124			A		
3124658790E			b		
3154628709E	s		s		
315264			s	-	
314265				s	
4132			-	s	
415362				-	
412365				s	
215364			-	3	
214365			s	3	

a = 1s.3.5.8.10 (11)
b = 12.14.16s.17.18.19 (20)
c = 6.12.14.16s.17.18.19 (20)
Start from rounds as the second row of a slow six

383. 5060 John Pladdys

1234567890E	1	5	6	9	18	19	
612534E9780				a			
312465		-	-			-	
2134			-			s	|
2143				s	-		
4123			-			s	|A
4132				s	-		
3142			-			s	|
2134657890E				b			
2143				A			
41236578E90	-		-			s	
415263						-	
413265						s	
3142			-			s	
315462						-	
312465						s	
2134			-			s	
2134658790E				c			
3124658709E	s		-			s	
315264						-	
314265						s	
4132			-			s	
415362						-	
412365						s	
513264			2			2	
314256789E0				d			
41325678E90	s		-			s	
416352						-	
412356						s	
2143			-			s	
216453						-	
213456						s	
3124			-			s	
3124567890E				z			

a = 1s.2.3.4s.6.10s (12)
b = 1.3.4.8s.12s.13.15.17s.18.19.22s (24)
c = 12.14.16s.17.18.19 (20)
d = 5.6s.12.14.16s.17.18.19 (20)
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a quick six

384. 5065 John Pladdys

```
1234567890E  1  6 19
-------------------
612534E9780     a
312465       5.6.19
2134            -  s
2143         9s.18
214365E7098     b
514362789E0     c
41526378E90  s  -  -
413265             s
-------------------
5132648790E     d   |
3154628709E  s  -  - |A
312465             s |
-------------------
31246578E90    3A
-------------------
5124638790E     d   |
2154638709E  s  -  s |B
213465             s |
-------------------
41236578E90    5A
2143658709E     B
-------------------
```

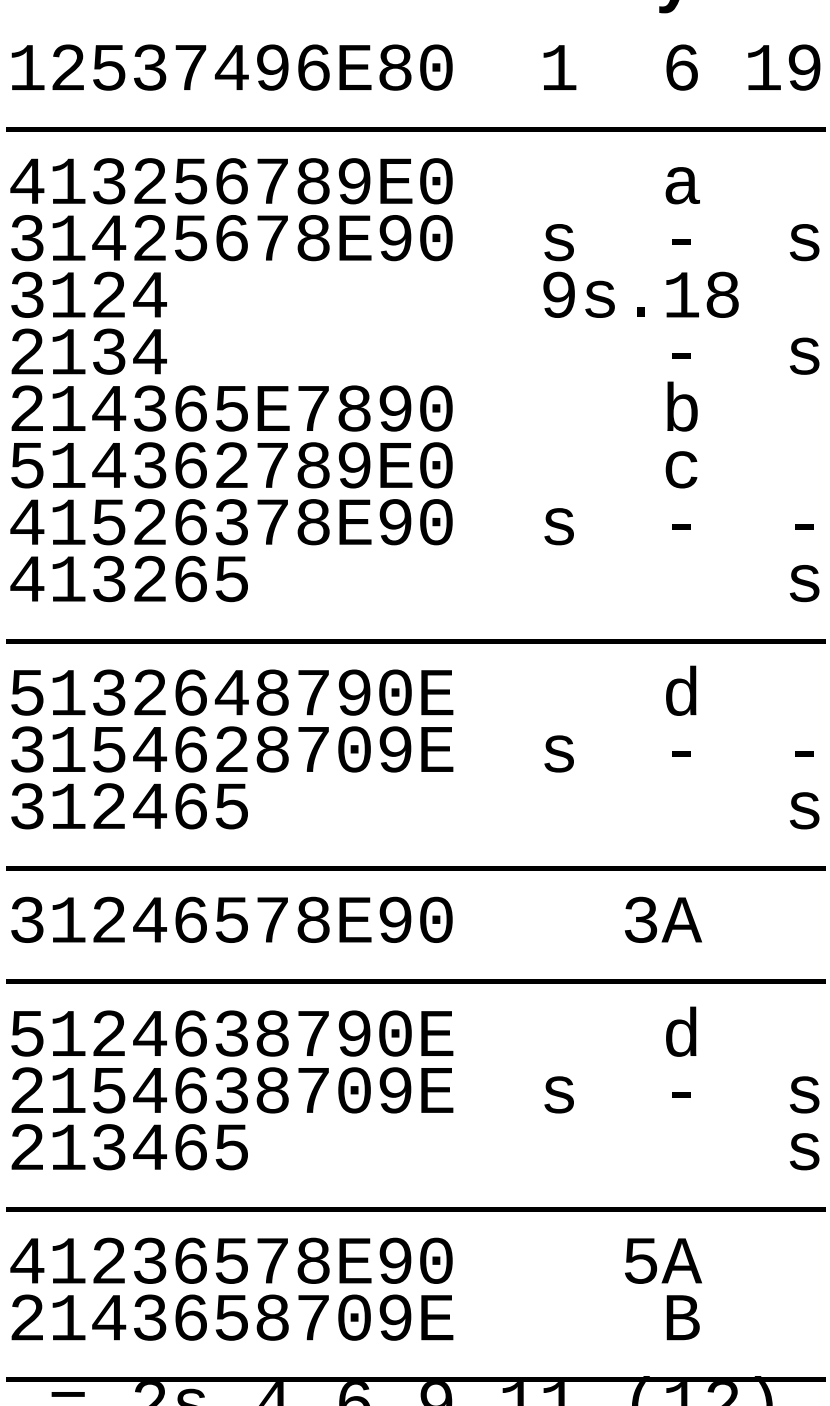
a = 1.2.3.4.6.10s (12)
b = 1.2.3.8.9.12s.15s.18s.21
c = 2s.3.4.5.7.8.9.10.14.15.16.18 (18)
d = 3.4.5.7.8.9.10.14.15.16.18 (18)
Start from rounds as the last row of a quick six

385. 5067 John Pladdys

1234567890E	1	6	19	
123456789E0		a		
12345678E90		b		
1234568790E		c		
1234567809E		d		
134265E7980		e		
5342617 89E0		f		
43516278E90	s	-	-	
432165			s	
5321648790E		g		A
2354618709E	s	-	-	
231465			s	
23146578E90		3A		
5314628790E		g		B
1354628709E	s	-	s	
132465			s	
43126578E90		5A		
1342658709E		B		

a = 1s.12.14.15.16.17.18.19 (20)
b = 12s.13.14.15.16.17.18.19 (20)
c = 12.14.16s.17.18.19 (20)
d = 12s.13.14.16s.17.18.19 (20)
e = 1.2.5.7.8.10.11.13s.15.16.20 (20)
f = 1.2s.3.4.5.7.8.9.10.14.15.16.18 (18)
g = 3.4.5.7.8.9.10.14.15.16.18 (18)
Start from rounds as the last row of a quick six

386. 5075 John Pladdys



a = 2s.4.6.9.11 (12)
b = 1.3.4.7s.8.10s.12s.13.15.16.17.19.22s.24 (24)
c = 2.3.4.5.7.8.9.10.14.15.16.18 (18)
d = 3.4.5.7.8.9.10.14.15.16.18 (18)
Start from rounds as the second row of a slow six

387. 5079 John Pladdys

2314567890E	6	9	18	19	
3124567809E			a		
2134		-		s	
2143		s	-		
21435678E90			b		
4123		-		s	
4132		s	-		
3142		-		s	A
3124		s	-		
2134		-		s	
213465			c		
2143			A		
21436587			d		
2134			A		
213456			c		
2143			A		
2143568709E			b		
2134			A		
213465			c		
2143			A		

a = 1s.6s.7.19s
b = 2.4.5.7s.8.10s.18.20s (20)
c = 2s.4.5.7.8.10s.18.20s (20)
d = 2s.4.5.7s.8.10s.13s.18.20s (20)

388. 5092 John Pladdys

```
 1234567890E  1  6  9 10 18 19
-------------------------------
 314256E9780        a
-------------------------------
 4132           -           s |
 4123              s     -    |
 2143           -           s |A
 2134              s     -    |
 3124           -           s |
-------------------------------
 3124658709E        b
 2134           -           s
 214563                     2
 4152           -           2
 413265                     s
 3142           -           s
 315264                     s
 513462         -           -
 312465789E0        c
 21346578E90    -    s      s
 215364                     -
 214365                     s
 4123           -           s
 415263                     -
 413265                     s
 3142           -           s
 3142657890E        z
 3124               A
 31526478E90  -             -
 314256             d
 4132           -           s
 4123              s     -
 2134           -           2
 2314              s     2
 2314567890E        z
-------------------------------
a = 2.5s.7s.9s.12.13.14.15.16.17 (19)
b = 1.2.3.8s.10s.12s.21
c = 6.12.14.16s.17.18.19 (20)
d = 5.14s.19s
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a slow six
```

389. 5350 John Pladdys

```
 2314567890E  1  5  6 19
 ____________________
 231456E9780     a
 2134            b
 2134658709E     c
 ____________________
 3124              -  s |
 315264               -  |A
 314265               s  |
 ____________________
 4123            A
 514362           2  3
 512364           s
 214365789E0     d
 41236578E90  s   -  s
 415263              -
 413265              s
 3124            A
 2134             -  s
 215463              s
 5134628790E     d
 3124568709E  s -    s
 4132           2A
 3142             -  s
 314256789E0     e
 41325678E90  s   -  s
 416352              -
 412356              s
 2134            A
 3124             -  s
 3124567890E     z
 ____________________
a = 1.3.8s.12s.21
b = 6s.8.9.10.11.12.13.14.15 (20)
c = 1.2.3.8s.10s.12s.21
d = 6.12.14.16s.17.18.19 (20)
e = 12.14.16s.17.18.19 (20)
z = 12.14.15.16.17.18.19 (20)
```

8617. 5004 Jeremy R Pratt

```
 2314567890E  1  7 18 19
 ____________________________
 32615478E90  1s.2.15.16.19
 314265       5.14s.18.19
 1234            -  s  -
 2413            s  -
 4321            -  s  -
 315264          -  -
 315246E9780  3.8s.10s.12s.21
 123456       5.14s.16s.18
 24136587E90        a
 ____________________________
 4321               x     |
 3142            s  -     |
 1234               x     |
 241365879E0  s  s  -     |A
 4321               x     |
 3142            s  -     |
 1234               x     |
 ____________________________
 2413658709E  -  s  -
 4321            -  s  -
 3142            s  -
 1234            -  s  -
 2143657890E  1s.7s.9s.13s.15s.18.22s
 13246578E90  -  -  s  -
 3412            s  -
 4231            -  s  -
 214356E9780  3.7.8.10s.12s.18.21
 1324            s  -
 34126587E90        a
 132465879E0        A
 3412658709E  -  s  -
 4231            -  s  -
 2143            s  -
 2314567890E  1s.4.5.7.9s.10.13s.16.19 (20)
 ____________________________
a = 1s.3.7.8.10s.12s.18.21
x = 4.6.14s.16.18.19
```

390. 5019 Jeremy R Pratt

2314567890E	1	7	18	19
32615478E90			a	
314265		5.14s	.18	.19
1234		-	s	-
2413		s	-	
4321		-	s	-
315264		-	-	
314265E9780			b	
315246		5.14s	.19s	
123456		5.14s	.16s	.18
24136587E90			c	
4321			x	
3142		s	-	
1234			x	
241365879E0	s	s	-	
4321			x	
3142		s	-	
1234			x	
2413658709E	-	s	-	
4321		-	s	-
3142		s	-	
1234		-	s	-
2143657890E			d	
13246578E90	-	-	s	-
3412		s	-	
4231		-	s	-
214356E9780			e	
1324		s	-	
2143658709E			A	

A

a = 1s.2.15.16.19
b = 3.6s.8s.12s.21
c = 1s.3.7.8.10s.12s.18.21
d = 1s.7s.9s.13s.15s.18.22s
e = 3.7.8.10s.12s.18.21
x = 4.6.14s.16.18.19

8618. 5050 Jeremy R Pratt

2314567890E	1	7	18	19
32615478E90			a	
314265	5.14s		.18	.19
1234		-	s	-
2413		s	-	
4321		-	s	-
315264		-	-	
315246E9780			b	
123456	5.14s		.16s	.18
24136587E90			c	
4321			x	
3142		s	-	
1234			x	
241365879E0	s	s	-	
4321			x	
3142		s	-	
1234			x	
2413658709E	-	s	-	
4321		-	s	-
3142		s	-	
1234		-	s	-
2143657890E			d	
13246578E90	1s	.2	.7.15s	.18s.19
3412		s	-	
4231		-	s	-
214365879E0	7s	.10s	.13s	.15s.18.22s
1324			x	
3412		s	-	
4231			x	
21436587E90	s	s	-	
2143658709E	2.15s			
2143758690E	1s	.3s	.12	
12537486E90	1s	.2	.6.7.15s	
2146357890E	7s	.10	.11.13.15s	.19s.22
123465	3.4.9.10.15.16.18s			.21.22 (24)
125436	5.14s		.19s	
124356			2y	
3124	7s	.9s	.16s	.18

a = 1s.2.15.16.19
b = 3.8s.10s.12s.21
c = 1s.3.7.8.10s.12s.18.21
d = 1s.7s.9s.13s.15s.18.22s
x = 4.6.14s.16.18.19
y = 3.4.9.10.15.16.21.22 (24)

8619. 5077 Jeremy R Pratt

```
 1234567890E  1  7 18 19
 ____________________________
 2143657809E  1s.3s.7.8.9.10.12s.18.21s
 43216578E90  2.6.15s.18.19
 3142            s  -
 1234            -  s  -
 2413            s  -
 123456E9780  5.6.11s.13s.15.16.17.19.21.22.24.26.29.31 (32)
 24136587E90  1s.3.7.8.10s.12s.18.21
 4321               x
 3142            s  -
 1234               x
 241365879E0  s  s  -
 4321               x
 3142            s  -
 1234               x
 2413658709E  -  s  -
 4321            -  s  -
 3142            s  -
 1234            -  s  -
 2143657890E  1s.7s.9s.13s.15s.18.22s
 13246578E90  -  -  s  -
 3412            s  -
 4231            -  s  -
 214365879E0  7s.10s.13s.15s.18.22s
 1324               x
 3412            s  -
 4231               x
 21436587E90  s  s  -
 1324               x
 1352648709E  2.15s.19
 1342658790E  10s.19s
 13427586     3s.12
 31527486E90  1s.2.6.7.15s
 1246357890E  2.10s.13s.14.15.16.18.19
 123465       3.4.7s.9.10.15.16.18s.21.22 (24)
 1324658709E  1s.5.6.7.8s.10s.13s.16.18s (20)
 3412            s  -
 4231            -  s  -
 2143            s  -
 ____________________________
x = 4.6.14s.16.18.19
Start from rounds as the last row of a quick six
```

397. 5011 John R Ridley

1234567890E	1	4	5	7	18	22
13425678E90	-				2	
1243					s	
1432					2	
12345670E89					s	-
1342					2	
1243					s	
1432					2	
12345679E08					s	-
1342					2	
1243					s	
1432					2	
12345678E90					s	-
234156780E9	-			s	2	
2143					s	
2314					-	
3214567908E				s		-
3142567980	s				2	
3241					s	
3412					2	
3214					s	
24153679E80	-		s	s	s	
4521				s	-	
45213769	4s.	6s.	17s			
152347698E0	1s.	5s.	9s.	16s.	18s	
451327			2			
235147			s		-	
23614759		s				
21354769		s			-	

Start from rounds as the last row of a quick six

398. 5016 John R Ridley

2314567890E	1	5	9	14	18	19	22
2431567809	s	3			-		
2134					s		
2413					-		
2314567E098					s		s
2314567809E					3		s
24631578E09	-	-	s	s		s	
245316						s	
134256		2			-		
1243					s		
1324					-		
14235679E08					s		s
14235678E09					3		s

Repeat

399. 5016 John R Ridley

```
2314567890E  1  5 18 22
-----------------------
24315678E90  -    -
2134           s
2341           2
2143           s
2314           -
-----------------------
2314567E908      a      |
2431             -      |
2134             s      |
2341             2      |
2143             s      |
5314267E098  s   s   -  |A
5413             s      |
5134             2      |
5431             s      |
5143             -      |
431256       -   -      |
-----------------------
423156798E0  -    -   -
4123              -
4321              s
4213567089E       2   -
4312567E809       s   -
2314567890E     A
-----------------------
a = 1s.2.4.6.8.10.12.14.16.18.20
```

400. 5016 John R Ridley

2314567890E	1	5	18	22
53142678E90	-	s	3	
214356		s	2	
2341			s	
2413			2	
23145670E89			s	-
531426		s	3	
214356		s	2	
2341			s	
2413			2	
23145679E80			s	s
531426		s	3	
214356		s	2	
2341			s	
2413			2	
531426790E8	-	s	s	
5413			s	
2314567 80E9		s	s	s
5314267890E	-	s	3	
214356		s	2	
2341			s	
2413			2	
2314			s	

401. 5016 John R Ridley

2314567890E	1	5	18	22
54132678E90	-	s	s	
5314			s	
241356		s	s	
23145670E89			s	-
541326		s	s	
5314			s	
241356		s	s	
23145679E80			s	s
541326		s	s	
5314			s	
214356		s	2	
231456780E9	-		-	s
5413267890E	-	s	s	
5134			2	
213456		s	3	

Repeat

402. 5016 John R Ridley

2314567890E	1	5	18	22	
1354267809E	s	-			
243156		2	-		A
2134			s		
2413			-		
2314567E098			s	s	
2314567809E			3	s	
24631578E09			a		
245316		19s			
142356			A		

Repeat
a L 1,5,9s,14s,19s

403. 5007 Charles W Roberts

2314567890E		5	6	19
21436578E90			a	
4132			-	2
315264			-	3
513462			-	-
314256		-		2
4123			-	2
2134			-	2
2143			s	2
213465			A	
2134658709E		2.13s.15s		
3142			-	2
4123			-	2
4132			s	2
3124			-	2
2143			-	2

A

a = 1.5.7.8.10.11.13s.15.16 (20)

404. 5007 Charles W Roberts

2314567890E 6 19

31265478E90 1.6s.7.19
314256 -

4123 - 2 |
2134 - 2 |
2143 s 2 | A
4132 - 2 |
3124 - 2 |

316254 -
314562 5.14s.19
312465 -
3142 A
315462 -
5124638790E a
2134658709E 1s.6
2143 A

---

a = 6.12.14.16s.17.18.19 (20)

405. 5019 Charles W Roberts

2314567890E	5	6	19	
31265478E90		a		
213456		-	-	
216453			s	
213654			-	
314652		-	3	
412653		-	3	
214356		-	-	
216354			s	
214653			-	
413652		-	3	
3164		-	2	
613254		-	-	
312465	-		2	
2143		-	2	A
4123		-	s	
2134		-	2	
3142		-	2	
4132		-	s	
4132658709E		b		
2143		A		

a = 1.6s.7.19
b = 2.13s.15s

406. 5019 Charles W Roberts

2314567890E	6	19	
21465378E90		a	
213456		-	
3142	-	2	
4123	-	2	
4132	s	2	A
3124	-	2	
2143	-	2	
216453		-	
215364		b	
213465		2	
2143		A	
2145638709E		c	
213465		-	
2143		A	

a = 1.3.4.8s.9.12.13.17.21.22
b = 5s.6.14s.19
c = 2.6s.13s.15s.19

407. 5019 Charles W Roberts

2314567890E	1	5	6	7	19
31425678E90	-		s	-	2
4123			-		2
2134			-		2
216453					s
214356					2
4132			-		2
316254			-		3
613452			-		-
314265		-			2
4123			-		2
2143			-		s
4132			-		2
3124			-		2
2134			-		s
2153648709E			a		
213465					2
3142			-		2
4123			-		2
4132			s		2
3124			-		2
2143			-		2

a = 2,13s,15s,19

408. 5000 Christopher H Rogers

```
1234567890E  6  7 18 19
──────────────────────────
123456789E0        a
24135678E90  7s.10s.18
4321            s  -
3142            s  -
314265             b
──────────────────────────
1234            s  -    │
24137568           x    │
4321            s  -    │A
3142            s  -    │
1234            s  -    │
24136578           x    │
──────────────────────────
315246E9780        c
1253648709E        d
2153            s
124365       -  -
4312         -     -  -
3412            s
1234         -     -  -
42316578E90        e
1324               A
1325648709E        f
1532                -
1235         9s
213465       -  -     -
3421         -     -  -
4321            s
231456E9780        g
34125678E90        h
4231            s  -
2143            s  -
1324            s  -
3124567890E        i
──────────────────────────
```

a = 1.3.5.6.9.10.12.15s.17.18.21.23.24.25.28.30.33.35 (36)
b = 5.8.9.10.11.13s.15 (20)
c = 3.6.8.9.10.12s.16s.21
d = 1.2.3.7.8.9.10.12s.21
e = 2.7s.9s.13s.15.16
f = 2.6s.13s.15s.19
g = 2.4.5.6.7.13.14.17.18.21s.22.24.26.29.31 (32)
h = 3.7s.8.9.12s.21
i = 7s.12.14.15.16.17.18.19 (20)
x = 4.16.17.18
Start from rounds as the last row of a quick six

8960. 5007 Christopher H Rogers

```
 2314567890E  1  6  7 18 19
 ---------------------------
 24135678E90  1s.2.9s.15s
 ---------------------------
 4321                 s  -                    |
 3142                 s  -                    |
 1234                 s  -                    |
 123456E9780  3.8s.12s.21                     |
 24136587E90  1s.3.7.8.10s.12s.18.21          |
 4321                 s  -                    |
 1234                2x                       |
 241365E7908  2.7s.10s.18                     |A
 4321                 s  -                    |
 3142                 -  s  -                 |
 1234                 -  s  -                 |
 1254638790E  6s.15s                          |
 2413658709E  s  -  -  -                      |
 3142                2x                       |
 315264             s                         |
 123465              -  -  -                  |
 ---------------------------
 13245678E90  2.5.7.8.10s.13s.16.18s.20s (20)
 2143658709E          A
 ---------------------------
x = 4.6.14s.16.18.19
```

409. 5007 Christopher H Rogers

2314567890E	1	6	7	18	19
213456789E0			a		
34215678E90	s	-		-	-
4321			s		
2143		-		-	-
1243			s		
4312		-		-	-
3412			s		
1234		-		-	-
1234567809E	2.15s				
12345687	13s.15s.22s				

3412		-		-	-	A
4312			s			
1243		-		-	-	
2143			s			
4321		-		-	-	
3421			s			
2134		-		-	-	

1234568790E	10s.16s					
12346578E90			b			
2134			A			
21436587	2s.9s.13s.15s.18					
12537486	3s.6.7.12					
2143758609E	2.6.7.15s					
21536487	3s.6s.12					
124365		-	-			
2143			A			

a = 1s.4s.10s.13s.17.22
b = 1.5.8s.10s.13s.16.18s (20)

8959. 5007 Christopher H Rogers

```
2314567890E  1  6  7 18
-------------------------
24135678E90  1s.2.9s.15s
-------------------------
4321                 s  -  |
3142                 s  -  |A
1234                 s  -  |
-------------------------
123456E9780  3.8s.12s.21
24136587E90  1s.3.7.8.10s.12s.18.21
1234                 A
241365E7908  2.7s.10s.18
1234                 A
1254638790E  6s.15s
2413658709E  s  -  -  -
4321                 s  -
3142                 s  -
315264            s
123465            -  -  -
-------------------------
13245678E90  2.5.7.8.10s.13s.16.18s.20s (20)
2143658709E       B
```

8961. 5007 Christopher H Rogers

2314567890E	6 19
21435678E90	1.4s.9s.17
4132	- 2
3142	- s
4123	- 2
2134	- 2
123456E9780	3.7.8.12s.21
21436587E90	1s.3.7.8.9.10.12s.18.21
2143568709E	2.3s.8s.10s.12s.15s.21s
4132	- 2
3124	- 2
2134	- s
31245678	6.13s.15s.19s.22s
3124568790E	1.2.13s.15s
21346578E90	1.5.8s.10s.13.14.16.18s (20)
3142	- 2
4132	- s
3124	- 2
2143	- 2
214356E9780	3.8s.10s.12s.21
2143758609E	1.2.3.10s.12s.21
41236587	6.13.19s.22s
2134	- 2
3142	- 2
4132	- s
3124	- 2
2143	- 2

410. 5007 Christopher H Rogers

(No 1)

```
2314567890E  6 19
-------------------------
312456789E0  1.6.7s.10s.19s
31625478E90  10s.19
314256          s
-------------------------
4132         -  s |
416352          - |A
412356          s |
-------------------------
2134             A
123456E9780  3.7.8.12s.21
2143568709E  1.2.3.7s.8.9.12s.18.21
216453          -
213456          s
3142             A
1234568790E  7s.10s.18
1234567809E  1.2.13s.15s
21346578E90  2.4s.5.7.8.9.10.14s.20s (20)
215364          -
214365          s
3124           2A
315246E9780  3.8.10.12s.18.21
31527486E90  1s.3.10s.12s.21
1342758609E  2.6.7.15s
41526387     3s.6.8.12.21s
413265          s
2143           2A
-------------------------
```

411. 5019 Christopher H Ro

2314567890E		6	19
21345678E90			a
3142		-	2
4123		-	2
4132		s	2
3124		-	2
2143		-	2
2143568709E			b
216354		s	3
6123		-	s
21436578E90			c
2134			A
213465870 9E			b
2143			A

A

a = 1.4s.17
b = 2.13s.15s
c = 2.5s.6.13s.15s

412. 5019 Christopher H Ro
(arr J R Johnson)

2314567890E		6	19
213456E7089			a
3142		-	2
4123		-	2
4132		s	2
3124		-	2
2143		-	2
2143568709E			b
216354		s	3
6123		-	s
21436578E90			c
2134			A
2134658709E			d
2143			A

A

a = 1.2.4s.17.22
b = 1.2s.10s
c = 2.5.6s.13s.15s
d = 2.13s.15s

413. 5020 Christopher H Rogers

```
1234567890E  6  7  9 18 19
──────────────────────────
123465          a
2143         s  s  -
21346578E90     b
──────────────────────────
3421         -     -  -  │
4321            s        │
2143         -     -  -  │
1243            s        │A
4312         -     -  -  │
3412            s        │
1234         -     -  -  │
──────────────────────────
315246E9780     c
31527486E90     d
2143758609E     e
21536487     3s.6s.12
123465       -  -  s  -
3412         -     -  -
4312            s
1243         -     -  -
2143658790E  7s.10s
4321658709E  6.10s.18.19
3421            s
2134         -     -  -
21436587E90  2.9s.15s.18
23154679E80     f
1523         -     -  -
5123            s
2351         -     -  -
3251            s
5132         -     -  -
32145678E90  5.8s.18.21
2314            A
2314567890E     z
──────────────────────────
a = 3.4s.7s.10.11.14s.17.18.22.25 (25)
b = 1s.2.9s.15s.18
c = 3.6.8.10.12s.21
d = 1s.3.10s.12s.21
e = 2.6.7.9s.15.16
f = 2.3.6s.8s.10s.12.13.15s.18.21
z = 12.14.15.16.17.18.19 (20)
```

Start from rounds as the last row of a slow six

8962. 5070 Christopher H Rogers

```
1234567890E  1  6 19
_____________________
432156789E0  1s.3.5.8.10 (11)
3124         7s.9s
31625478E90  s     -
314256             s
4132            -  s
416352             -
412356             s
2143            -  s
216453             -
213456             s
123456E9780  3.7.8.12s.21
2143568709E  1.2.3.7s.8.9.12s.18.21
216453             -
213456             s
3124            -  s
316254             -
314256             s
1234568790E  7s.10s.18
21346578E90  1.2.3.7.8.10s.12.13.15s.21s
215364             -
214365             s
4123            -  s
415263             -
413265             s
3142            -  s
315462             -
312465             s
315246E9780  3.8.10.12s.18.21
31527486E90  1s.3.10s.12s.21
2143758609E  2.6.7.9s.15.16
41236587     3s.6.12.19s
215364          -
213465       6s.9s.18
3124            -  s
315264             -
314265             s
4132            -  s
12345678     4s.5.7.8.9.10.13.14.16s (20)
1234567890E  s
_____________________
```

Start from rounds as the last row of a slow six

414. 5085 Christopher H Rogers

```
3124567890E  1  6 19
_____________________
421356789E0     a
3124            b
31625478E90  s     -
314256             s
_____________________
4132            -  s |
416352             - |A
412356             s |
_____________________
2134            A
123456E9780     c
2143568709E     d
216453             -
213456             s
3142            A
1234568790E  7s.10s.18
1234567809E  1.2.13s.15s
21346578E90     e
215364             -
214365             s
3124          2A
315246E9780     f
31527486E90     g
1342758609E     h
41526387        i
413265             s
2143          2A
_____________________
```

a = 1s.3.5.8.10 (11)
b = 4s.7s.9s.16s.17
c = 3.7.8.12s.21
d = 1.2.3.7s.8.9.12s.18.21
e = 2s.3.7.8.10s.12s.15s.21s
f = 3.8.10.12s.18.21
g = 1s.3.10s.12s.21
h = 2.6.7.15s
i = 3s.6.8.12.21s

Start from rounds as the fourth row of a slow six

415. 5090 Christopher H Rogers

a = 1s.2.3.5s.9s.10.12.13.14.15.16.17.19 (19)
b = 3.5s.6.11.13.15.16.19 (20)
c = 3.6s.8s.10.12s.21
d = 1s.3.10s.12s.21
e = 2.6.7.9s.15.16
f = 3s.6.12.19s
g = 10s.13s.15s.22
h = 5.8s.10s.13s.16.18s (20)
i = 1s.2.6.13s.15s.19s
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a slow six

416. 5098 Christopher H Rogers

2314567890E	1	4	6	7	9	17	18
43215678E90	1s.	2.	9s.	15.	16.	18	
3142				s		-	
1234				s		-	
2413				s		-	
421365	5.	8.	9.	10.	11.	13.	15 (20)
4231					s	-	
24317568		-		s		s	
4231				s			
24316578		-		s		s	
2413					s	-	
231456E9780	3.8s.	9.	10.	12s.	21		
4213658709E	1.	2.	3.8s.	9.	10.	12s.	16s. 21
4231					s	-	
24317586				x			
4231				s			
24316587				x			
2413					s	-	
2314657890E	9s.	12s.	13.	14.	16s.	17.	18. 19 (20)
2341					s	-	
2143	8.	9.	11s.	20.	21		
1324	1s.	7s.	10s.	18			
13246578E90	1s.	2.	15s				
1342					s	-	
31427568		-		s		s	
1342				s			
31426578		-		s		s	
3124					s	-	
153246E9780	3.	7.	8.	10.	12s.	18.	21
1253648709E	1.	2.	3.8s.	10s.	12s.	18.	21
132465			s			-	
31427586	3.	4.	7s.	9s.	12.	17s.	18
1342				s			
31426587				x			
3124					s	-	
34125678E90	2.4s.	5.	7.	8.	9.	10.	13s. 16. 20s (20)
4231				s		-	
2143				s		-	
1324				s		-	
3124567890E	7s.	12.	14.	15.	16.	17.	18. 19 (20)

x = 3,4,12,16,17

8963. 5100 Christopher H Rogers

```
 2314567890E  1  4  6  7  9 17 18
 ---------------------------------
 43125678E90  1s.2.9s.15.16.18s
 3241                 s       -
 2134                 s       -
 1423                 s       -
 421365       5.8.9.10.11.13.15s (20)
 4231                    s    -
 24317568        -    s    s
 4231                 s
 24316578        -    s    s
 2413                    s    -
 231456E9780  3.8s.9.10.12s.21
 4213658709E  1.2.3.8s.9.10.12s.16s.21
 4231                    s    -
 24317586             x
 4231                 s
 24316587             x
 2413                    s    -
 2314657890E  9s.12s.13.14.16s.17.18.19 (20)
 2341                    s    -
 2143         8.9.11s.20.21
 1324         1s.7s.10s.18
 13246578E90  1s.2.15s
 1342                    s    -
 31427568        -    s    s
 1342                 s
 31426578        -    s    s
 3124                    s    -
 153246E9780  3.7.8.10.12s.18.21
 1253648709E  1.2.3.8s.10s.12s.18.21
 132465            s          -
 31427586     3.4.7s.9s.12.17s.18
 1342                 s
 31426587             x
 3124                    s    -
 34215678E90  2.4s.5.7.8.9.10.13s.16s.20s (20)
 4132                 s       -
 1243                 s       -
 2314                 s       -
 2314567890E  12.14.15.16.17.18.19 (20)
 ---------------------------------
x = 3,4,12,16,17
```

9087. 5000 Philip A B Saddleton

1234567890E	6	7	18	19	
4312658709E			a		
425361			-	-	A
245163	-	-		-	
213465			-	-	
3421	-		-	-	
315462			-	-	
135264	-	-		-	
124365			-	-	
21436578E90			b		
4321			A		
4321658709E			c		
2143			A		
12436578E90			d		
4312			A		
134256			y		
3142		s			
4231	-		-	-	
2431		s			
3124	-		-	-	
3124567890E			z		

a = 1s.4.5.8.11.12.14.15.20.22s.23.25.26 (26)
b = 2.5.6.13.14.15.16.19s
c = 1.13s.15s.22
d = 1.13s.15.16.22
y = 1.2.3.5.7s.8.9.11.13s.14.16.18 (18)
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a quick six

417. 5001 Philip A B Saddleton

1234567890E	6	7	18	19		
32415678E90			a			
3412 425361			2 b			
245163	-	-		-		
213465			-	-		
3421	-		-	-		
315462			-	-	A	B
135264	-	-		-		
124365			-	-		
4312	-		-	-		
3251648709E 314265			c A			
12435678E90 1342658709E			d B			

a = 1.4.5.7.10.13.16.17.18.20.24.27.28 (29)
b = 8.9.10.11.13.15.16 (20)
c = 1.2.3.5.6.7.8.9.13.14.16.17.18.20 (20)
d = 2.7.8.9.10.13.14.16.17.18.20s (20)
Start from rounds as the last row of a slow six

418. 5005 Philip A B Saddleton

1234567890E	6	7	10	18	19	
23416578E90			a			
215364				-	-	
125463	-	-			-	
143265				-	-	
3214	-			-	-	
345261				-	-	
435162	-	-			-	
412365				-	-	A
4123658790E			b			
4152638709E			s		-	
5124	-				2	
213465	-				3	
3142	-				2	
4123	-				2	
43216578E90			c			
2143658709E			A			

a = 1.5.7.8.10.11.13.14.15.16 (20)
b = 1s.13s.15s.22
c = 2.13s.15s.18s
Start from rounds as the last row of a quick six

419. 5007 Philip A B Saddleton

2314567890E	6	7	18	19	
34125678E90			a		
1234	-		-	-	
2134		s			
3421	-		-	-	
4321		s			
2143	-		-	-	
135264			b		
315462	-	-		-	
342165			-	-	
2134	-		-	-	
245163			-	-	A
425361	-	-		-	
431265			-	-	
1243	-		-	-	
1352648709E			c		
124365			A		
23516478E90			d		
214365			A		
2351648709E			c		
214365			A		

a = 1s.2.15.16.18s
b = 5.8.9.10.11.13.15.16.17 (20)
c = 2.13s.15s.18.19
d = 2.13s.15.16.18.19

420. 5007 Philip A B Saddleton

2314567890E	6	7	16	18	19	
435162E7089			a			
345261	-	-			-	
125463		-	s	s		
215364	-	-			-	
31426578E90			b			
312564					2	
214563	-				3	A
4152	-				2	
2134658709E			c			
214563					2	
413562	-				3	
314265	-				-	
425163E7089			d			
2143658709E			A			

a = 1.2.4.7.8.10.11.13.17.20 (20)
b = 3.6.7.8.9.12.13.15.16.21
c = 1.9s.13s.15.16.18.19.22
d = 2.3.6.9s.12.13.22

421. 5009 Philip A B Saddleton

3124567890E	6	19	
12546378E90		a	
5241	-	2	A
423165	-	3	
3214	-	2	
1243	-	2	
2145638709E		b	
413562	-	3	B
312564	-	3	
2153	-	2	
12456378E90		c	
125364		B	
2154638709E		b	
214365		A	

a = 1.5.7.8.10.11.13.14.15.16.17 (20)
b = 2.5.6.13.14.15.16.19
c = 2.13s.15.16.19
Start from rounds as the second row of a quick six

422. 5009 Philip A B Saddleton

```
2314567890E  1  2  6  7 18 19
-----------------------------
2314567809E  s
2314657890E           a
3214                   s
1432                -     -  -
124365E7908  2s.13s.18
-----------------------------
2143659780E     -      s      |   |
432165E7089  -  -  -       -  -|   |
3421659780E  -  -      s      | A |
213465E7089  -  -  -       -  -|   |
1234659780E  -  -      s      |   |
341265E7089  -  -  -       -  -|   | B
-----------------------------
4312659780E  -  -      s      |   |
421365078E9           b       |   |
31426507E98           A       |   |
135264879E0  -  -      s     s|   |
13426507E98  -  -             s|   |
-----------------------------
12436597E80           b
134265879E0           B
1342658709E  -
-----------------------------
a = 1.2.4s.5.7.8.9.10.20s (20)
b = 1.6s.10s.15s.18.19
```

423. 5016 Philip A B Saddleton

```
 2314567890E
 ----------
 0E189674523  1.2s.4.6.7.12.13.15.17s.18 (18)
 6548723E190  1.3.4.5s.7s.11.13.14 (14)
 21354E69078  1s.3.4.6s.8.11s.12 (12)
 9876540E123  1s.6s (6)
 546327890E1  1.2s.5.7s.9.10.12s (12)
 0E912345678  1.2.4.8s.10s.11.12.14 (14)
 ----------
11 part
```

424. 5016 Philip A B Saddleton

(after P J Earis)

```
 2314567890E
 ----------

 35179E24680     a
 9807654321E     b
 ----------

 61E72839405     b
 12E34567890     a
 ----------

11-part
a = 2s.4.5.7.8.11s.14.16s.20 (20)
b = 1s.4s.6.7.9s.12s.16.18 (18)
```

425. 5016 Philip A B Saddleton

2143658709E	1	2	6	13	15	19		
4132			-			2		
3145627890E	-	-	-	s	s	-		
312465						-		
213564			-			-		
213465			s			-		
3142			-			2		B
41236578E90	-		-			2		
2134			-			2	A	
3142			-			2		
314562879E0	-	-	s	s	s	-		
3142658709E				B				
4132657890E	-	-	-	s	s	s		
41326578E90				A				
413265879E0	-	-	s	s	s	s		
3124658709E	-		-			2		
2143			-			2		

Start from rounds as the first row of a slow six

426. 5019 Philip A B Saddleton

2314567890E	1	6	19
413562		a	
31256478E90	-	-	3
214563		-	3
413562		-	3
4123658709E		b	
413562			2
312564		-	3
214563		-	3
2143657890E		c	
21356478E90	-		2
314562		-	3
412563		-	3
214365		-	-
2154638709E		b	
213564			-
314562		-	3
412563		-	3
214365		-	-

a = 3.4.7.8.9.11s.12.16s.17.20.21
b = 1.13s.15s.19.22
c = 1.2.6s.13s.15s.19

427. 5019 Philip A B Saddleton

2314567890E	6	19
21456378E90		a
213465		-
3142	-	2
415263	-	3
5124	-	2
2153648709E		b
213465		2
3142	-	2
415263	-	3
5124	-	2
51236478E90		c
514263		-
413265	-	3
3124	-	2
215463	-	3
5123648709E		b
514263		-
413265	-	3
3124	-	2
2143	-	2

a = 1.3.4.8s.9.11s.12.17.20.21
b = 2.6.13s.15s.19
c = 2.6s.13s.15s.19

428. 5040 Philip A B Saddleton

1234567890E	6	18	19
3412	-	-	-
3412568709E		a	
1234	-	-	-
123456879E0		z	
3412	-	-	-
34126587E90		b	
1234	-	-	-
21346578		c	
3421	-	-	-
3421657890E		z	

4-part
a = 2.12.14.16.17.18.19 (20)
b = 2.3.4.5.8.9.11.12.13.15.16.18 (18)
c = 2.3.12.13.15.16
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a quick six

5271. 5050 Philip A B Saddleton

2314567890E	6	7	18	19	
6145E372098			a		
4312658709E			b		
425361			-	-	
245163	-	-		-	
213465			-	-	
3421	-		-	-	A
315462			-	-	
135264	-	-		-	
124365			-	-	
21436578E90			c		
4321			A		
4321658709E			d		
2143			A		
12436578E90			e		
4312			A		
134256			y		
3142		s			
4231	-		-	-	
2431		s			
3124	-		-	-	
3124567890E			z		

a = 1.3.5.6.9.10.12 (12)
b = 2s.5.7.8.9.10.11.12.13.15.18.20s (20)
c = 2.5.6.13.14.15.16.19s
d = 1.13s.15s.22
e = 1.13s.15.16.22
y = 5.8.9.10.11.13.14.15 (20)
z = 12.14.15.16.17.18.19 (20)

429. 5065 Philip A B Saddleton

1234567890E	1	6	19	
213465		a		
21536478E90	-		-	
5132		-	2	A
314265		-	3	
415263		-	3	
2145638709E		b		
215364			2	
415263		A		
21436578E90		c		
215463			-	B
5142		-	2	
413265		-	3	
3124		-	2	
4132658709E		b		
2143		B		

a = 1.2.3.4.8.9.11.13.14.15.16.18 (18)
b = 1.2.3.5.6.7.10.14.16.17 (18)
c = 2.4s.8s.10.12.13.16.18.20s (20)
Start from rounds as the last row of a quick six

631. 5074 Philip A B Saddleton

1234567890E	1	3	4	6		
908E1234567			a			
1490E236587			b			
67E90583412		-	-			
320E9418765		-	-			
8590E761234		-	-			
14E90236587		-	-			
670E9583412		-	-			
3190E248765	-	-	-		A	
86E90572143	-	-	-	-		
230E9145678		-	-	-		B
5890E674321		-	-			
41E90327856		-	-			
760E9852143		-	-			
2390E145678		-	-			
57E90861342	-	-	-	-		
140E9238765	-	-	-	-		
8590E763412		-	-			
7690E854321			A			
0E912345678			c			
2314567890E			3B			

a = 9.12.13.14.15.17.18.20.21 (22)
b = 5.6.10.13.14.15 (20)
c = 1.2.5.6.7.8.12.13.14.15.17.18.21.22 (24)
Start from rounds as the last row of a quick six
Each course is 6 sixes except where shown

430. 5081 Philip A B Saddleton

2314567890E	6	7	18	19	
0E189674523			a		A
0E912345678			b		
5647890E123			9A		
234E1907856			a		
32146578E90			c		
1432		-		-	-
125463				-	-
215364		-	-		-
234165				-	-
4123		-		-	-
1324658709E			d		
2413		-		-	-
4231		-	-		2
3142		-		-	-
12346578E90			e		
1342658709E			B		

a = 1.2.4.5.6.13.14.15.17.18 (18)
b = 2.3.6.8.9.11.14.15 (16)
c = 3.4.6.9.10.11.12.15.16.17.20.25 (26)
d = 2.5.6.13.14.15.16.18.19
e = 2.6.13s.15.16.18.19

431. 5200 Philip A B Saddleton

321547698E0	1	6	19
3124657890E		a	
2143		-	2
4132		-	2
3142		-	s
41236578E90	-	-	2
2134		-	2
2143		s	2
4132		-	2
3124		-	2
3125648709E		b	
314265			-
4123		-	2
2134		-	2
21346587E90		c	
3142		-	2
4123		-	2
4132		s	2
3124		-	2
2143		-	2
4125638709E		d	
413265			-
3124		-	2
2143		-	2

a = 2s.4.7s.8.9.10.11.13.14.16s.21s (30)
b = 2.6s.13s.15s.19
c = 2.15s
d = 2.6.15s.19
Start from rounds as the third row of a quick six

432. 5285 Philip A B Saddleton

3124567890E	1	6	7	18	19	
24315678E90	-	-		-	-	
4231			s			
3142		-		-	-	
1342			s			
4213		-		-	-	
2413			s			
1324		-		-	-	
146352				-	-	
132465	5.	14s.		18.	19	
145362				-	-	A
415263		-	-		-	
423165				-	-	
3142		-		-	-	
325164				-	-	
235461		-	-		-	
241365				-	-	
4312658709E			b			
1243			A			
23146578E90			c			
1423			A			
4321658709E			b			
2143			A			

b = 2.5.6.13.14.15.16.18.19
c = 2.6.13s.15.16.18.19
Start from rounds as the second row of a quick six

15290. 5465 Philip A B Saddleton

```
 2314567890E  6  7  9 16 18 19
 ──────────────────────────────
 54326178E90        a
 ──────────────────────────────
 412563       -  -        2     │A │
 134265          -             - │  │
 ──────────────────────────────   │  │
 1243               s            │  │C
 4312         -                -  - │B │
 534162          -     s          - │  │
 ──────────────────────────────   │  │
 243165             A            │  │
 ──────────────────────────────   │  │
 5123648709E        c
 312465             C
 135264          s                 -
 52146378E90        d
 421365             C
 5341628709E        c
 134265             C
 ──────────────────────────────
```

a = 1s.5.9.10.11.12.13.14.15.17.20.24.26.27 (30)
c = 2.7.13s.15.16.18s.19
d = 2.6.9s.13s.15s.19

For 5033, replace first two courses of A with 8.10.11.12.13.15.16 (20) in any three blocks

582. 6912 Philip A B Saddleton

1234567890E	1	3	4	6	7	9	10	12	
6145372E098	-	-	-	s	-	-	-	-	
765341298E0		-	-	-		-	-		
2134567E098		-	-			-	-		A
764531298E0		-	-			-	-		
2153467E098		-	-			-	-		
763451298E0		-	-			-	-		
21453670E89	-	-	-			-	-	-	B
7653412890E		-	-			-	-		
763451					A				
1245376E098	-	-	-	-	-	-	-	-	C
675342198E0		-	-			-	-		
673452					A				
6734521890E					B				
1645327E098	-	-	-		-	-	-	-	
215346798E0		-	-	-		-	-		
213456					A				
2134567890E					B				
12345768					C				

Repeat

Start from rounds as the last row of a quick six

Each course is 12 sixes

433. 5009 Peter J Sanderson

2314567890E	1	2	6	7	18	19	
14235678E90	-		-		-	-	
4123				s			
2341			-		-	-	
3241				s			
4132			-		-	-	
1432				s			
3214			-		-	-	
2314				s			
231456789E0	s						
2314567809E	-						
13426578E09			a				
13426508E97	2	-					
42516378E90		s	-		-	2	
423165						s	
315462			-		-	2	
312465						s	A
245361			-		-	2	
241365						s	
135264			-		-	2	
134265						s	
134265E7098	2.13s						
1342658709E				A			

a = 1,5,8s,10,11,13,14,15,16 (20)

434. 5007 C J Sedgley

2314567890E	5	6	19	
61534278E90		a		
413562	-	-	2	A
312564		-	3	
2153		-	2	
5132		-	2	
312456		A		
5162348709E		b		
214365		2A		

a = 1.5.7.8.10s.11.13.15s.16.17 (20)
b = 2.13s.14.15.19

435. 5003 David J Sheppard

```
 2314567890E  6 19
 ------------------
 62513478E90    a
 314256       6.14s.18s
 4132         -  s
 416352          -
 412356          s
 2143         -  s
 216453          -
 213456          s
 3124         -  s
 316254          -
 314562       5.14s.19
 ------------------
 312465          -  |
 2143         -  2  |
 4132         -  2  |
 4132658709E    b   |A
 415362          -  |
 213564       2  2  |
 3152         -  2  |
 314265          s  |
 ------------------
 21456378E90    c
 2143658709E    A
 ------------------
```

a = 3s.9.12.15s.18s (19)
b = 2.6s.13s.15s.19s
c = 2.6s.9s.13s.15.16.18s.19
Start from rounds as the second row of a slow six

436. 5007 David J Sheppard

2314567890E	6	19	
31245678E90		a	
2134	-	s	
216354		-	
214356		s	
4123	-	s	
416253		-	
413256		s	
3142	-	s	
412365		b	
415362	s		
514263	-	-	
4152	-	s	
413265		s	
3142658709E		c	
315264		s	
513462	-	-	A
3154	-	s	
312465		s	
2143658709E		4A	

a = 1.6s.7.19s
b = 5.8s.10.11.13.14.15.16 (20)
c = 2.6.13s.15s.19s

437. 5016 David J Sheppard

```
2143658709E  6 19
-----------------
41236578E90    a
415263           -
312564       2   2
214563       -   3
214365       s   -
4153628709E    b
213564       2   2
3152         -   2
314562       3   -
314265       s   -
-----------------
```

Repeat

a = 2.6.13s.15s.19s

b = 2.6.13s.15s

Start from rounds as the first row of a slow six (two part)

438. 5090 David J Sheppard

1234567890E	1	6	9	19
87654321		a		
51462378		b		
465321		-	s	-
31426578E90		c		
4123		-		2
2134		-		2
4123658709E		d		
415362				s
213564		2		2
3152		-		2
314265				s
3124657890E		e		
21436578E90	-	-		2
4132		-		2
3124		-		2
4132658709E		d		
415263				s
312564		2		2
2153		-		2
31425678E90		f		
4132		-		s
416352				-
412356				s
2143		-		s
216453				-
213456				s
3124		-		s
3124567890E		z		

a = 2s.5.6.7.8.9.10.13s (13)
b = 2.3.10s.15.18.20.21.24s (24)
c = 1.7.9s.14s.16s.18.19
d = 1.9s.13s.15.16.18.22
e = 5s.9.10.13s.14.15.18.22s
f = 2.5.9s.13.14.15.16.18.19
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a slow six

8957. 5219 David J Sheppard

```
 1234567890E  6  9 18 19
 ──────────────────────
 21345678E90  1.5.6s.8.9.10.11.13.15 (20)
 ──────────────────────
 3421         -     -  - │
 432165            x    │
 2143         -     -  - │
 124356            x    │A
 4312         -     -  - │
 341265            x    │
 1234         -     -  - │
 ──────────────────────
 123456E9780  3.8s.10s.12s.21
 21436587E90  1s.3.7.8.9.10.12s.18.21
 23517486     3.4.12.17s.18.19
 2143658790E  10s.13.18.19.22
 231456       5.7.8.10.11.13s.15 (20)
 2153648709E  1s.5.7.8.10.11.13s.15.16.17s (20)
 213465       s  s  -
 3421         -     -  -
 4312         3.4.7s.9s.12s.17s.18
 1243         -     -  -
 3172E569048  3.7.9s.12.13.15s.18.22s.26s.28 (32)
 1234E975680  5s.6.9.14s.16s.18.19.21s.24.26.28.31.33 (34)
 12347568E90  3.8s.11s.20
 21346578     4.16.17
 123456            A
 13247658E09  1.4.10s.17
 32415768E90  1.4.6.7.9.10.17
 2314576890E  7s.9.10.13s.18.22
 13542E67908  3.5s.7s.8.9.11.13s.14.15.16.20s.21.22.24.26.29.31 (32)
 13579E24680  1.3s.4.5.6.7.12.14.15.17s.18 (18)
 3124657890E  1.2.4s.5.8.12s.13.15 (16)
 3124658709E  10s.13s.15s.22s
 2431         -     -  -
 4213         3.4.7s.9s.12s.17s.18
 132547698E0  2.4.6.7.8.9.10.11.12.13.18.19.20.21.22.23.24.25.27.29 (30)
 ──────────────────────
x = 5.8.9.10.11.13.15 (20)
Start from rounds as the last row of a quick six
```

439. 5004 W J Smith

3124567890E	5	6	19
312654		s	-
214653		-	3
413652		-	3
3164		-	2
613254		-	-
514263	-	-	3
413265		-	3
3124		-	2
213564		-	-
214563		s	3
413562		-	3
3154		-	2
513264		-	-
314652	-		-
412653		-	3
2164		-	2
613452		-	3
312456		a	

a = 1.6.12.14.15.16.17.18.19 (20)

Start from rounds as the second row of a quick six

440. 5005 Bernard H Taylor

1234567890E	1	6	7	18	19	
21345678E90	-	-	-		s	
3421		-		-	-	A
4321		-	-		s	
2143		-		-	-	
1243		-	-		s	
4312		-		-	-	
3412		-	-		s	
3412567809E			a			
1243			A			
342165			b			
34216578E90			a			
2143			A			
21436587			c			
1243		-	-		s	
4321			A			
4321658709E			a			
3421		-	-		s	
2143			A			

a = 2.15s
b = 5.7.8.10.11.13.15s.16 (20)
c = 2s.13s.15s
Start from rounds as the last row of a quick six

441. 5007 Bernard H Taylor

2314567890E 6 19

4123657 8E90 a

215364 - 3 | A | B
5132 - 2 | | |
314265 - 3 | | |

4135628709E b
412365 -
3142 A

4132657 8E90 c
2143658709E B

---

a = 1.5.7.8.10.11.13.15.16 (20)
b = 2.6.13s.15s.19
c = 2.6.13s.15s.19s

442. 5007 Bernard H Taylor

2314567890E	6	19	
41236578E90		a	
2134	-	2	A
3142	-	2	
4132	-	s	
3124	-	2	
2143	-	2	
4123658709E		b	
215364	-	3	B
5132	-	2	
314265	-	3	
31426587E90		c	
4132		A	
4132658709E		c	
2143		B	

a = 1.5.7.8.10.11.13.15.16 (20)
b = 2.6.13s.15s.19s
c = 2.15s

443. 5009 Bernard H Taylor
(No 1)

2314567890E	1	6	7	18	19
14235678E90	-	-		-	-
4123			s		
2341		-		-	-
3241			s		
4132		-		-	-
1432			s		
3214		-		-	-
2314567809E	2.7s.	15s			
2314568790E	1.2.13s.	15s			
31526487E90	1.5.7.8.10.11.13.14.15.16.17s (20)				
31426578	2s.6s.	13s.	15s		
4231		-		-	-
2431			s		
3124		-		-	-
1324			s		
2413		-		-	-
4213			s		
1342		-		-	-
1234657890E	1s.	13s.	18.	22	
42136587E90	1s.2.9s.	13s.	15.	16.	18
2413			s		
1324		-		-	-
3124			s		
2431		-		-	-
4231			s		
3142		-		-	-
31527486	3s.6s.	12			
13426587	3s.6.7.	12			
4213658709E	2.6.15s.	18.	19		
2413			s		
1324		-		-	-
3124			s		
2431		-		-	-
4231			s		
3142		-		-	-
13427586	3s.7s.	12			
13526487	3s.6s.	12			
134265		s			

444. 5009 Bernard H Taylor
(No 2)

2314567890E	1	6	7	18	19
2314567809E	s				
2314568790E	1.2.13s.15s				
31526487E90	1.5.7.8.10.11.13.14.15.16.17s (20)				
31426578	2s.6s.13s.15s				
4231		-		-	-
2431			s		
3124		-		-	-
1324			s		
2413		-		-	-
4213			s		
1342		-		-	-
1234657890E	1s.13s.18.22				
241365879E0	1s.2.7s.10s.13s.15s.18				
1324		-		-	-
3124			s		
2431		-		-	-
4231			s		
3142		-		-	-
1342			s		
42136587E90	6.10s.18.19				
2413			s		
1324		-		-	-
3124			s		
2431		-		-	-
4231			s		
3142		-		-	-
31527486	3s.6s.12				
13426587	3s.6.7.12				
4213658709E	2.6.15s.18.19				
2413			s		
1324		-		-	-
3124			s		
2431		-		-	-
4231			s		
3142		-		-	-
13427586	3s.7s.12				
13526487	3s.6s.12				
134265			s		

445. 5009 Bernard H Taylor

(No 3)

```
2314567890E  1  6  7 18 19
-------------------------------------------------------------
2314567809E  s
2314568790E  1.2.13s.15s
312465       5.7.8.10.11.13s.14.15.16 (20)
31246578     2s.13s.15s
24316578E90  -  -     -  -
4231            s
3142            -     -  -
1342            s
314265879E0  1s.2s.7s.13s.15s
1342            s
42136587E90  6.10s.18.19
-------------------------------------------------------------
2413            s                    |
1324            -     -  -           |
3124            s                    |
2431            -     -  -           |
4231            s                    |
3142            -     -  -           |
13527486     3s.6.7.12                |A
3152            s                    |
134275          -  -                 |
3142            s                    |
13526487     3s.6.7.12                |
3152            s                    |
134265          -  -                 |
-------------------------------------------------------------
4213658709E  2.6.15s.18.19
1342            A
-------------------------------------------------------------
```

446. 5009 Bernard H Taylor

(No 4)

```
2314567890E  1  6  7 18 19
-------------------------------------------
2314567809E  s
2314568790E  1.2.13s.15s
312465       5.7.8.10.11.13s.14.15.16 (20)
31246578     2s.13s.15s
24316578E90  -  -     -  -
4231            s
3142            -     -  -
1342            s
314265879E0  1s.2s.7s.13s.15s
1342            s
13526487E90  6s.10s
-------------------------------------------
13427586     3s.6s.12          |
135274          s              |
32146587     3s.6.7.12.18      |A
2431            s  -           |
4123            s  -           |
1342            s  -           |
-------------------------------------------
2351648709E  2.6.7.9s.15.16
234165          A
23516487E90  2.6s.15s
234165          A
1352648709E  2.6.7.9s.15.16
134265          A
-------------------------------------------
```

447. 5009 Bernard H Taylor

(No 5)

```
2314567890E  1  6  7  9 18
-------------------------------------------
2314567809E  s
2314568790E  1.2.13s.15s
312465       5.7.8.10.11.13s.14.15.16 (20)
31246578     2s.13s.15s
14326578E90  -     s     -
4213               s     -
2431               s  s  -
4123               s     -
1342               s     -
134265879E0  1.2.13s.15s
13526487E90  6s.10s
-------------------------------------------
13427586     3s.6s.12        |
135274          s            |
32146587     3s.6.7.12.18    |A
2431               s     -   |
4123               s     -   |
1342               s     -   |
-------------------------------------------
2351648709E  2.6.7.9s.15.16
234165             A
23516487E90  2.6s.15s
234165             A
1352648709E  2.6.7.9s.15.16
134265             A
-------------------------------------------
```

448. 5019 Bernard H Taylor

2314567890E	6	9	18	19	
21435678E90			a		
2134		s	-		A
3124	-			s	
3142		s	-		
4132	-			s	
4123		s	-		
216354	-				
214365			b		
4123			A		
4123658709E			c		
215364	-			3	B
5132	-			2	
314265	-			3	
31526487E90			d		
314265				s	
4132			A		
4132658709E			e		
2143			B		

a = 1.4s.9s.17
b = 5.14s.19s
c = 2.13s.15s
d = 2.15s.19s
e = 2.15s

449. 5093 Bernard H Taylor

```
 2314567890E
 ___________
 2143657809E  1s.5.7.8.10.11.13s.15.16 (20)
 23156487E90  2.6s.13s.15s.18
 ___________
 23417586     3s.12.19                                  |
 235174       6s                                        |
 23516487     3s.12                                     |
 312465       8.10.11.12.13.15 (20)                     |
 2341          3x                                       |
 312465879E0  1s.6s.8.10.11.12.13.15 (20)               |A
 2341          3x                                       |
 2341758609E  1s.2.3s.12.15s                            |
 235174       6s                                        |
 23516487     3s.12                                     |
 312465       8.10.11.12.13.15 (20)                     |
 2341          3x                                       |
 ___________
 3124657890E  3.4.5.6.7.9s.13.14.16 (20)
 13256487E90  1s.2.6.7.13s.15s.19
 1342658709E    A
 1342658790E  1s.6.8.9.10.11.12.13.15 (20)
 1342658709E  1s
 ___________
x = 6s.8.10.11.12.13.15 (20)
```

8958. 5090 Nigel Thomson

```
 1234567890E  4  6  7 16 18 19
 ____________________________
 4321560897E  1s.2.3.5.8.10 (11)
 32146578E90  3.9s.11s.12.13.16.20.23s.26.27 (30)
 1432            -        -  -
 4132               s
 3241            -        -  -
 2341               s
 4123            -        -  -
 1423               s
 2314            -        -  -
 315246E9780  3.6.7.8.10.12s.21
 3152648709E  1.2.3.8s.10s.12s.21
 314265                      s
 4231            -        -  -
 2431               s
 3124            -        -  -
 1324               s
 5324617098E  2.3.4.5.7.8.9.10.14.15.16.18 (18)
 3214657089E  1s.4s.6.16
 215463       s  -     -
 153462       s  -     -
 3514            -           s
 512463       s  -     -
 123465       s  -     -
 2413658790E  2.7s.10s.18.22
 4213658709E  1s.7s
 1342            -        -  -
 3152647890E  1.2.7s.13s.15s.19s
 31425678E90  1.5.13.14.19s.22s
 4231            -        -  -
 4213            s           2
 1342            -        -  -
 1324            s           2
 2413            -        -  -
 2431            s           2
 3124            -        -  -
 3124567890E        z
 ____________________________
z = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a slow six
```

450. 5007 Albert M Tyler

2314567890E	6	7	9	18	19	
21345678E90			a			
3124	-				s	
3142			s	-		
4132	-				s	A
4123			s	-		
2143	-				s	
216453					-	
213465			b			
2143			A			
21537486			c			
215473	s				-	
1254		s				B
125374	s				-	
2153748609E			d			
1253			B			
21536487E90			e			
215463	s				-	
213465					s	
3124	-				s	
315264					-	
314265					s	C
4132	-				s	
4123			s	-		
2143	-				s	
2154638709E			f			
214365			C			

a = 1.4s.17
b = 5.14s.19s
c = 4.8s.10s.12s.13.14.16.18 (20)
d = 2.7s.15s
e = 2.3s.7.8.12.15s.21s
f = 2.15s.19

451. 5017 Albert M Tyler

1234567890E	5	6	7	19		
12645378E90			a			
123456				s		
3214		-		s		
236154			s	-	A	B
234156				s		
4123			2A			
2143		-		s		
216354				s		
6123		-		s		
125463	-	-	-	-		
214365			B			
1254638709E			b			
214365			B			

a = 1s.2.9s.15s.18.19
b = 2.7s.13s.15s.19
Start from rounds as the last row of a quick six

452. 5019 Albert M Tyler

2314567890E	6	9	18	19	
21635478E90			a		
214356				s	
4123	-			s	A
4132		s	-		A
3142	-			s	A
3124		s	-		A
2134	-			s	A
216453				s	
213465			b		
3124	-			s	B
315264				-	B
314265				s	B
4132	-			s	B
415362				-	B
412365				s	B
2143	-			s	B
21346587			c		
2143			B		
2143758609E			d		
2134			A		
21346587			e		
2143			B		

a = 1.4s.9s.17.19s
b = 5.14s.19s
c = 2s.9s.13s.15s.18
d = 2s.3.6s.12.15s.19s
e = 3s.12

453. 5019 Albert M Tyler
(No 22a)

2314567890E	6	7	9	18	19	
21345678E90			a			
3124	-				s	
3142			s	-		
4132	-				s	A
4123			s	-		
2143	-				s	
216453					-	
213465			b			
2143			A			
21346587			c			
2143			A			
21347586			d			
2143			A			
2134758609E			e			
2143			A			
21346587			d			
3124	-				s	
315264					-	
314265					s	
4132	-				s	
4123			s	-		
2143	-				s	

a = 1.4s.17
b = 5.14s.19s
c = 2s.9s.13s.15s.18
d = 3s.9s.12.18
e = 2.9s.15s.18

9058, 5091 Michael J Uphill

(No.3)

2314567890E	1	6	19
31245678E90	1.6.7s.19s		
2143		-	2
4132		-	2
412365		a	
2134		-	2
3142		-	2
3142658709E	2.13s.15s		
4123		-	2
2134		-	2
214356		a	
4132		-	2
3124		-	2
3124568790E	s		
21435687E90	-	-	2
4132		-	2
412365		a	
2134		-	2
3142		-	2
213456		b	
2134568709E	2.15s		
3142		-	2
413265		c	
3124		-	2
2143		-	2

a = 5.8s.10.11.13s.15.16 (20)
b = 5.8s.10.11.13.15.16 (20)
c = 5.8s.10.11.13s.14.15.16 (20)

454. 5007 John S Warboys

2314567890E	1	6	7	9	16	18	19	
09E78563412				a				
90E7					s			
41235678E90				b				
4132				s		-		
3142		-					s	
3124				s		-		A
2134		-					s	
2143				s		-		
2143568790E				c				
2134568709E	s			s		-		
3124		-					s	
3142				s		-		
4132		-					s	
4123				s		-		
31245687E90				d				
2134				A				
2134658709E				e				
312564		-					-	
413265			-		s		-	B
513264		2					s	
314265		-						
41326587E90				f				
3142				A				
3124658709E				g				
2143				B				

a = 1.9.11s.21.22.28 (28)
b = 10s.13.15 (16)
c = 12.14.16s.17.18.19 (20)
d = 2.7s.9s.15.16
e = 2.3s.8s.10s.12s.15s.21s
f = 2.6.15s.19s
g = 2.9s.15s.18

455. 5009 John S Warboys

2314567890E	1	2	9	13	15	16	18	19
41325678E90	-		s			s	2	
2314			s			s	2	
2314567809E	1.		13s.		22			
3142						s	2	
2413			s			s	2	
31425678E90		-	s		-	-	2	
2413			s			s	2	
2314568709E		-		s	s		s	
425361					a			

431265							-	-	
345162						s		-	
312465							-	-	A
135264						s		-	
124365							-	-	

24316578E90		-		s	-	-	2		
1342			s			s	2		
3154628709E		-		s	-	-		-	
213465					A				
24316587E90		-			s		s		
4231						s			
2143						s	-		
1243						s			
2154638709E		-			-	-		-	
243165							-	-	
125364			s			s		-	
134265							-	-	

a = 7.8.10.11.13.15.16 (20)

456. 5009 John S Warboys

2314567890E	1	5	6	7	9	16	18	19	
14235678E90	-		-				-	-	
4123				s					
2341			-				-	-	A
3241				s					
4132			-				-	-	
1432				s					
3214			-				-	-	
1234567809E					a				
412356E9780					b				
531246		s					-		
321456		s		s	s				
2314				s					
2314E098765					c				
3421				s			-		
4132				s			-		
1243				s			-		
2134				s	s		-		
1423				s			-		
4312				s			-		
3241				s			-		
5142368790E					d				
1342568709E	s	s		s					
13426587E90					e				
2431					A				
3124658709E					f				
4213					A				
42136587E90					g				
3124					A				
2431658709E					h				
1342					A				

a = 2.6.15s.19s
b = 3.7s.8.9.12s.15.16.18.21
c = 1.3s.4.12.14.16s.18s (20)
d = 3.6s.12.14s.15.18.19.21.22
e = 2s.3.8s.10s.12s.15s.21s
f = 2.6.15s.18.19
g = 2.15s
h = 2.6.15s.18.19

457. 5009 John S Warboys

2314567890E	1	6	7	18	19	
14235678E90	-	-		-	-	
4123			s			
2341		-		-	-	
3241			s			
4132		-		-	-	A
1432			s			
3214		-		-	-	
2314			s			
3214657890E			a			
2314			s			
1432			A			
4213658709E			b			
235164			s	s	-	
234165					s	
315462			s	s	-	B
312465					s	
145263			s	s	-	
143265					s	
14326587E90	2.15s					
4132			s			
3214			A			
3214658709E	2.15s					
1342			B			

a = 1.2.4s.5.7.8.9.10.14s.20 (20)
b = 1.2.13s.15.16.18

458. 5009 John S Warboys

2314567890E	1	7	9	18	19		
32415678E90	-	s	s	-			
2134		s		-			
1423		s		-			
4312		s		-			
3421		s	s	-			
4132		s		-			
1243		s		-			
24136587			a				
435162		-		-			
312465		s		-	-		
145263		-		-			
423165		s		-	-	A	B
215364		-		-			
134265		s		-	-		
3254618709E			b				
423165			A				
215364		-		-			
132465		-		-	-		
34526187E90			b				
421365		s		-	-		
1342658709E			B				

a = 5.7.8.10s.13.14.16.18s (20)
b = 2.7.15s.18

459. 5009 John S Warboys

2314567890E	1	9	16	18	19	
41325678E90	-	s	s	2		
1324			s	2		A
4231		s	s	2		
2314			s	2		
2314567809E			a			
2314657890E			b			
3241657809E			c			
21436587E90			d			
12537486			e			
2143758609E			f			
21546387			g			
243165				-	-	B
425361			s		-	
431265				-	-	
345162			s		-	
312465				-	-	
135264			s		-	
124365				-	-	
23146578E90			h			
2431				-		
1342			A			
3154628709E			i			
134265			B			

a = 1.13s.22
b = 1.2.4s.5.7s.8.9.10.11 (20)
c = 1s.7s.9s.18
d = 2.13s.15.16.18s
e = 3s.6.7.12
f = 2.6.7.15s
g = 3s.12.19
h = 2.13s.15.16.18
i = 2.13s.15.16.19

460. 5009 John S Warboys

2314567890E	1	9	16	18	19	
41325678E90	-	s	s	2		
1324			s	2		A
4231		s	s	2		
2314			s	2		
2431657809E			a			
1342		s	s	2		
1243		s		3		
21546387			b			
243165				-	-	B
425361			s		-	
431265				-	-	
345162			s		-	
312465				-	-	
135264			s		-	
124365				-	-	
23146578E90			c			
2431				-		
1342			A			
3154628709E			d			
134265			B			

a = 1s.2.4s.5.7.9.10.11.16 (20)
b = 2s.13s.15.16.19
c = 2.13s.15.16.18
d = 2.13s.15.16.19

461. 5009 John S Warboys

2314567890E	5	9	16	18	19	
34215678E90			a			
3142				-		
2413		s	s	2		
5463217890E			b			
43215678E90			c			
4132				-		
2314		s	s	2		
321456E9780			d			
4213		s	s	s		
531246	s	s				
123456	-			-		
543216	s	s				
4253618709E			e			
431265				-	-	
345162			s		-	
312465				-	-	A
135264			s		-	
124365				-	-	
23146578E90			f			
2431				-		
1342		s	s	2		
3154628709E			g			
213465			A			
24316587E90			h			
4231			s			
2143			s	-		
1243			s			
2154638709E			i			
243165				-	-	
125364		s	s		-	
134265				-	-	

a = 1s.2.15.16.18
b = 5.6.12.14.15.16.17.18.19 (20)
c = 1.5.6.16s.18
d = 3.7.8.12s.21
e = 1.2.3.7.8.10s.12s.18.21
f = 2.13s.15.16.18
g = 2.13s.15.16.19
h = 2.15s.18s
i = 2.15.16.19

462. 5009 John S Warboys

2314567890E	1	5	6	7	9	16	18	19	
14235678E90	-		-				-	-	
4123				s					
2341			-				-	-	A
3241				s					
4132			-				-	-	
1432				s					
3214			-				-	-	
1234567809E					a				
412356E9780					b				
531246		s					-		
231456		s		s	s	s			
2314E098765					c				
3214				s					
5432168790E					d				
4213568709E	s	s		s			-		
3124					A				
2431			-				-	-	
1342					A				
13426587E90					e				
2431					A				
3124658709E					f				
4213					A				
42136587E90					g				
3124					A				
2431658709E					f				
1342					A				

a = 2.6.15s.19s
b = 3.7s.8.9.12s.15.16.18.21
c = 1.3s.4.12.14.16s.18s (20)
d = 3.6.12.14s.15.18.19.21.22
e = 2s.3.8s.10s.12s.15s.21s
f = 2.6.15s.18.19
g = 2.15s

5251. 5021 John S Warboys

```
2314567890E  5  9 16 18 19
-----------------------------
43215678E90  1s.2.9s.15.16.18
4132                  -
-----------------------------
1324                s   2     |
4231              s   s   2     |A
2314                s   2     |
-----------------------------
421356E9780  3.8.9.12s.16s.21
4312              s
531246         s
231456         s   s   s   s
-----------------------------
2431658709E  1.2.3.8s.10s.12s.18.21
-----------------------------
425361              s     -   |
431265                  -   -   |
345162              s     -   |B
312465                  -   -   |
135264              s     -   |
124365                  -   -   |
-----------------------------
23146578E90  2.13s.15.16.18
2431                  -
1342                A
-----------------------------
324165E9780  3.7.8.12s.18s.21
3124                  -
3214              s   2
-----------------------------
3421658709E  1.2.3.8s.12s.18.21
1342                B
```

463. 5057 John S Warboys

```
2314567890E  5  9 16 18
-------------------------
34215678E90  s1.2.15.16.18
3142                 -
2134              s  s  -
90E78563412  7.9.s11 (28)
24135678E90  1.s10.13.15 (16)
5463217890E  5.6.12.14.15.16.17.18.19 (20)
43215678E90  1.5.6.s16.18
4132                 -
2143              s  s  -
31425768     s4.s6.s9.s16.17.18
3241                 s
23145678     s4.6.7.s9.s17.18
421356E9780  3.8.9.s12.s16.21
531246       s       s
123456       -       -
1234E098765  1.s3.4.12.14.s16.s18 (20)
4321              s  s  2
3214                 s  2
5432167890E  3.6.12.14.18.19.21.22
143256       1.s5.12.14.15.16.17.18.19 (20)
1243                 -
3421              s  s  2
3124567809E  9.10
3142              s     -
32415687     s2.s13.s15.s18
3124                 -
3124568790E  s10
13579E24680  1.3.5.6.s8.9.12.s15.16 (16)
13426587E90  1.2.s4.5.s7.s9.12.14 (18)
31527486     s3.6.7.12
1342758609E  2.6.7.s15
13526487     s3.s6.12
231465       s6.s9.s16.18
2431                 -
1342              s  s  2
-------------------------
```

Contains Queens, Tittums, Backrounds, Single and Double Whittingtons and all near misses.

464. 5081 John S Warboys

2314567890E	1	5	6	9	16	18
34215678E90	1s.	2.	15.	16.	18	
3142						-
2134				s	s	-
90E78563412	7.	9.	11s	(28)		
24135678E90	1.	10s.	13.	15	(16)	
5463217890E	5.	6.	12.	14.	15.	16. 17. 18. 19 (20)
41325678E90	-	-	-		s	2
2143				s	s	-
32415768	4s.	6s.	9s.	16.	17	
23145678	4s.	6.	7.	9s.	17s.	18
421356E9780	3.	8.	9.	12s.	16s.	21
531246		s		s		
123456		-				-
1234567809E	2s.	3.	8s.	12s.	21	
1423						-
13425687	2s.	13s.	15s.	18		
1234						-
1234568790E	10s					
23415687E90	-				s	2
3124					s	-
13579E24680	3.	5.	6.	8s.	9.	12. 15s. 16 (16)
13426587E90	1.	2.	4s.	5.	7s.	9s. 12. 14 (18)
31527486	3s.	6.	7.	12		
1342758609E	2.	6.	7.	15s		
13526487	3s.	6s.	12			
243165			s	s	s	2
4312					s	2
23416578E90	2.	9s.	13s.	15.	16.	18
2134						-
4312				s	s	2
2341658709E	2.	9s.	13s.	15.	16.	18
2134						-
1342					s	2

465. 5004 James W Washbrook

3124567890E	1	5	6	19	
21435678E90	-		-	2	
416352			-	3	
6134			-	2	
512463		-	-	3	
213465			-	3	A
3142			-	2	
415263			-	3	
415362			s	-	
512364			-	3	
315462			A		
516432		-	3		
612453		-	s		
316452			2		
3124567890E			a		

a = 6s.12.14.15.16.17.18.19 (20)

Start from rounds as the second row of a quick six

466. 5016 Michael P A Wilby
(Ann's Peal)

2143658709E	7	18	19	
12346578E90		a		
245361	s	-	s	A
241365			s	
4321	s	-		
315264	s	-	s	
314265			s	
13246587		b		
2143		A		
1234658709E		c		
245361	s	-	s	B
241365			s	
435162	s	-	s	
432165			s	
315264	s	-	s	
314265			s	

Repeat.
a = 2.7s.9s.13s.15s.18
b = 2s.7s.9s.13s.15s.18
c = 2.7s.9s.15s.18
Start from rounds as the first row of a slow six

467. 5024 Michael P A Wilby

```
1234567890E  1  5  6  7  9 16 18 19
-----------------------------------
9075E381624  1s.2s.4s.6s.9s.11s.13s.15s (16)
5132467890E  1.7s.9s.11.13.16s.17.18.19.20.21
12345678E90  -  s  -  -        -  -
3412               -           -  -
4312                  s
1243               -           -  -
2143                  s
2351E476980  5.6.11s.13s.15.19 (20)
1253648709E  1.2.3.7s.9s.12.13s.16s.18s
1352                          s
123465            s           -
2134                  s
1243                  s  s     -
2143                  s
1234657890E  1s.7s.9s.13s.15s.18.22s
3412               -           -  -
4312                  s
1243               -           -  -
43526178E90  -     -     s
324165             -  -        -
3145E276980  6s.9.11.13.19.21.22
13246587E90  1.2.3.7s.13.19
3412                  s        -
4231                  s        -
2143                  s        -
31527486     3s.7s.9s.12.16s.19s
32415768     2s.5s.6.13.14.15s.18s
4132               -           -  -
1432               -  -           s
3214               -           -  -
2314576890E  7s.10s.13s.22
45362718E90  1.4.5.7s.9s.16s.18
13245678     4.5.6.7s.14s.16.17s.19
51379E24680  3.5.6.8.9.10.12.14.15.16 (16)
51326487E90  1.2.4s.5.7s.9s.12.14s.15 (18)
1234568790E  1s.3s.6.8s.10s.12.13.16s.18.21s.22
54321678     1s.3.5s.9s.12.13.16.17.18.19 (20)
546321       3s.6s.8s.10.12.13.21.22
312456          s     -  s  s  -  -
```

Start from rounds as the last row of a quick six

468. 5057 Michael P A Wilby

1234567890E	6	7	18	19
9075E384621	1s.2s.4s.6s.9s.11s.13s.15s.16s (16)			
5432167890E	1.7s.9s.11.13.16s.17.18.19.20.21			
42135678E90	1.5s.7s.18			
1342	-		-	-
3142		s		
4231	-		-	-
2431		s		
3124	-		-	-
13579E24680	3.5.6.8.9s.12.14.15.16 (16)			
13246587E90	1.2.4s.5.7s.9s.12.14s (18)			
2413	-		-	-
4213		s		
1342	-		-	-
3142		s		
4231	-		-	-
2341658709E	2.6.7s.15s.19s			
4123	-		-	-
1423		s		
2314	-		-	-
325164		s		-
2351	-	-		s
23517486E90	2.3s.12.15s			
31245768	2s.5s.6.13.14.15.16.18			
1324		s		
3412		s	-	
4312		s		
3241		s	-	
2341		s		
1234576890E	7s.9.10.13s.16s.18.22			
23146578	4.6.7.17			
3421		s	-	
4132		s	-	
1243		s	-	
1342657809E	1s.18s			
3214658790E	2s.10s.13s.15.16.18			
1432658709E	1s.6.18.19			
4132		s		
3241658790E	6.10s.18.19			
3241658709E	6s.10s.19s			

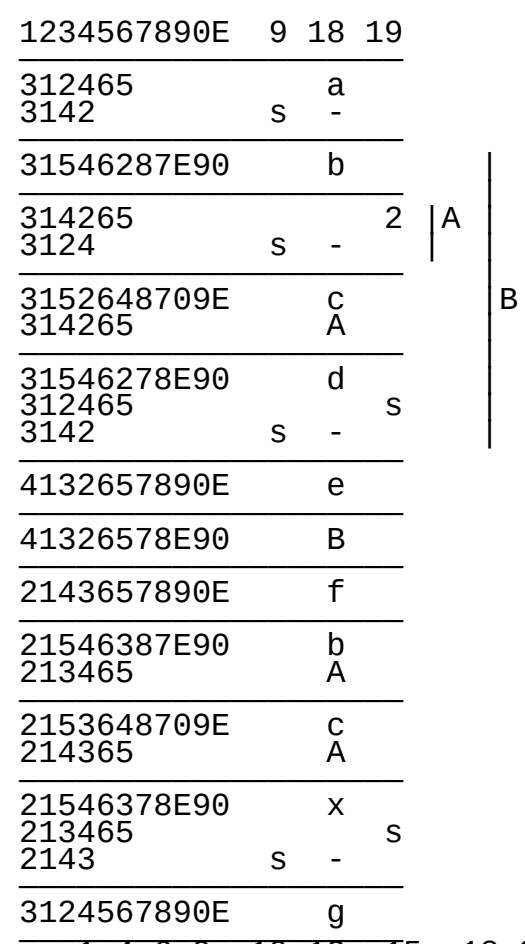
Start from rounds as the last row of a quick six

469. 5069 Michael P A Wilby

1234567890E	6 7 18 19
9075E384621	1s.2s.4s.6s.9s.11s.13s.15s.16s (16)
5432167890E	1.7s.9s.11.13.16s.17.18.19.20.21
23145678E90	1.5.9s.16s
4231	4s.7s.9s.16.17.18
4132	s
3142	- s
3152E476980	5.6.9s.11s.13s.15.19 (20)
2153648709E	1.2.3.7s.9s.12.13s.16s
234165	6s.9s
4123	- - -
1423	s
2314	- - -
3124657890E	2s.6s.7.10s.13s.15s.19s
31526478E90	1.19
234165	9s.16s.19s
3145E276980	6.7.9.11.13.19.21.22
13246587E90	1.2.3.7s.13.19
3412	s -
4231	s -
2143	s -
31527486	3s.7s.9s.12.16s.19s
32415768	2s.5s.6.13.14.15s.18s
1234576890E	9.10.13s.16s.18.22
46532178	3s.8s.14.15.17s.21s.22.23.24.25 (26)
435126	s s -
3124567809E	2s.5.10s.14.15.16s.18s
13247658E09	1.4.16.17
35241678E90	1.4.5s.10s.16.17
13579E24680	3.5.6.8.9.10.12.14.15.16 (16)
13526487E90	1.2.4s.5.7s.9s.12.14s.15 (18)
134256	3s.6s.8s.10s.12.13.21.22
1234	-
1234568790E	10s.13s.22
1432568709E	1s.18s
3214	- - -
321465	3s.8s.10s.12.13.21.22
1432	- - -
4132	s
3241	- - -

Start from rounds as the last row of a quick six

15842. 5000 Lucinda J Woodward



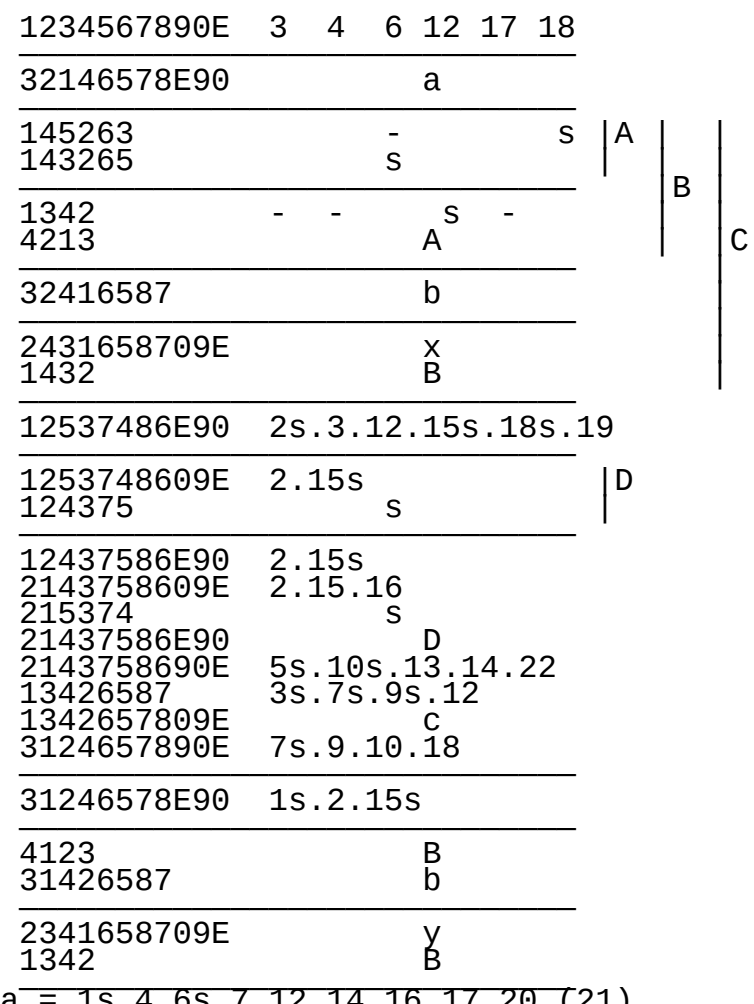
a = 1.4.6.9s.10.12s.15s.18.21.22.23.25.26.27 (28)
b = 1s.2.7s.13s.15.16.19
c = 2.15s.19
d = 2.9s.13s.15s.18.19s
e = 6.10s.13s.19s.22
f = 1.2.4s.10.11.12.16.19s (20)
g = 2.3.5.7.8.11.13s.14.16.18 (18)
x = 1s.2.4.5.6.7.9s.10.13s.17.20s (20)
Start from rounds as the last row of a quick six
& hear misses
NB turning course d must be called as shown
NB Philip - after course f this is just the B block with x in place of d, but I don't think I can make SPAFT show it in such a way (which on paper is far more elegant of course)

15892. 5000 Lucinda J Woodward
(5000 (No.2))

213547698E0	6	9	18	19		
3125648709E		a				
214563	-			3		
413562	-			3	A	
314265	-			-		B
41356278E90	2.6.13s.15s.19					
412365		A				
4123657890E		b				
2143	-			s		
2134		s	-			
3124	-			s		
3142		s	-			
4132	-			s		
31456278E90	1s.2.6.15s.19					
2143658709E		B				

a = 1s.4.5.7s.13.14.17.20s (21)
b = 12.14.15.16.17.18.19 (20)
Start from rounds as the fifth row of a slow six
NB Philip - the header should be (32416587 09E) with the opening course 2s.5.6.8s.14.15.18.21s

15897. 5001 Lucinda J Woodward



a = 1s.4.6s.7.12.14.16.17.20 (21)
b = 2.3.9s.12.13.15.16.18
c = 3.13.14.16.17.18.19 (20)
x = 2.6.15.16.19s
y = 2.6s.9s.15.16.19s

Start from rounds as the last row of a slow six
All 10, near misses.
NB Philip - the remainder of the composition after 31246578E90 should be expressed as "C calling y for x"

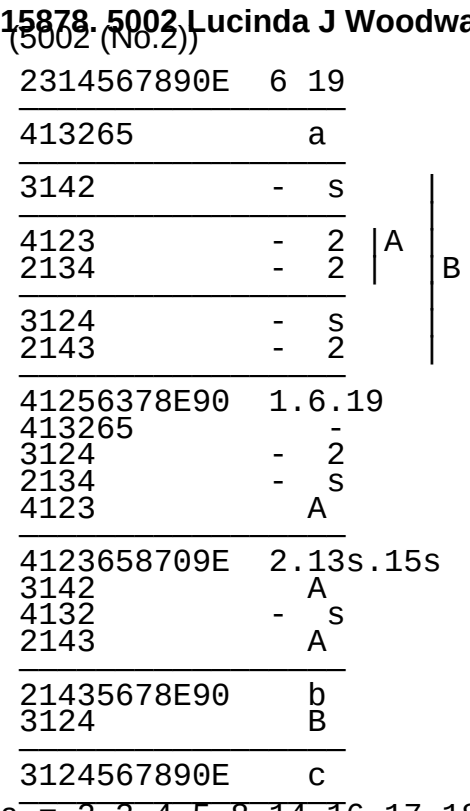
15853. 5002 Lucinda J Woodward

2314567890E	9	16	18	
3124658709E		a		
3142		s	-	A
2134		s	s -	
4123		s	s -	
4132		s	-	
2143		s	s -	
31246578E90		b		
2143		A		B
3124657890E		c		
2143		A		
31246587E90		d		
2143658790E		B		
2153648709E	6s.10s			
31245678E90		e		
2143		A		
3124567890E		c		

a = 1.2.5.7.8.10s.13.14.16.18s.20s (20)
b = 1.9s.13s.15.16.18.22
c = 4s.9.10.13s.16.17.18.22
d = 1s.2.9s.13s.15.16.18
e = 2.5s.6.9s.13.14.15.16.18
8 "near-misses"

15878. 5002 Lucinda J Woodward

(5002 (No.2))



a = 2.3.4.5.8.14.16.17.18.21s.22.23 (24)

b = 1s.2.4.5.7.8.10s.13s.18.20 (20)

c = 12.14.15.16.17.18.19.(20)

NB Philip - the courses between 2143657890E and 31246578E90 should be expressed as 1.A

15840. 5004 Lucinda J Woodward

```
2314567890E  6  7  9 19
------------------------
42316578E90       a
------------------------
2413         - -     2  |A   |
1342         -    s  2  |    |B
3124         - -     2  |    |
------------------------     |
3421658709E  2.9s.13s.15s    |
2143              A          |
------------------------
2314657890E  1s.2s.13s.15s.18
------------------------
2413              s     |
1423         -       s  |C
1324              s     |
------------------------
13246578E90  1s.2.15s
------------------------
3412658709E       B
------------------------
42316587E90  2.15.16.18
3241              C
3214         9s.18
------------------------
2314567890E       b
------------------------
```

a = 1.3.4.7.8.9.10.12.13.16.17.18.21.22
b = 1.2.4.5.7.8.10s.13.14.18.20 (20)

15854. 5004 Lucinda J Woodward

```
132547698E0  6  7  9 16 18 19
-------------------------------
4153628709E  5 (21)
431265       -  -     s  -
1234         2  -     s  -
3421         2  -     s  -
-------------------------------
34216578E90  2.13s.15s
-------------------------------
2134         -           -  -  |  |
2143            s        -     |B |
4321         -           -  -  |  |C
-------------------------------  |  |
4312            s        -     |  |
3412               B           |  |
-------------------------------  |  |
3214658790E  9.10.13s.15s.22     |  |
-------------------------------  |  |
3241            s        -     |  |
2314         s  s        -     |D |
2341            s        -     |  |
-------------------------------  |  |
23416578     2.3.12.13.15s       |  |
3214               D             |  |
-------------------------------  |  |
23146587E90        a             |  |
2341               C             |  |
-------------------------------  |  |
4321658709E  2.6.15s.19s         |  |
2134         2  -     s  -       |  |
3412         2  -     s  -       |  |
1243         2  -     s  -       |  |
2143            s                |  |
-------------------------------  |  |
a = 2.4.5.7s.8.10s.13.14.18.20 (20)
```

Start from rounds as the first row of a slow six

7 tenors missed

NB Philip - the header change should be (2143658709E) and the first course calling shown as a bob at 6; that makes the first six courses the A block which is then repeated immediately prior to the final course - I can't make SPAFT display in this way (can you teach me how?)

15889. 5005 Lucinda J Woodward

```
1234567890E  6  9 18 19
──────────────────────
2134658709E       a
──────────────────────
214563              2 │   │
413562      -       3 │A  │
314265      -       - │   │B
──────────────────────      │
31426578E90       b         │
4123              A         │
──────────────────────      │
4123657890E 10s.13s.22 │
2143        -       s  │C
2134           s  -    │
──────────────────────
21346587E90 1s.2.7s.13s.15.16
2143           s  -
4123        -       s
4132           s  -
──────────────────────
4132657890E 10s.13s.15s.22
3142        -       s
3124           s  -
──────────────────────
41326578E90       c
──────────────────────
2143658709E       B
──────────────────────
```

a = 1s.7.8.10s.13.14.16.17.18 (20)
b = 2.7.8.13s.15.16.21s
c = 1s.2.8.9.15.16.18.21s
Start from rounds as the last row of a quick six
NB Philip - the second 657890E block should simply be expressed as "C adding 15s in first course"

15855. 5006 Lucinda J Woodward

132547698E0	6	9	18	19	
314256E9780		a			
4132	-			s	
4123		s	-		
2143	-			s	A
2134		s	-		
3124	-			s	
31246578E90	3.8s	.10s	.12s	.21	
3142	s			2	
4123	-			2	
4123658709E	2.13s	.15s			B
512364	2			s	
213465	-	s	-		
3142	-			2	
31427568E90	2.13.15s				
3124		A			
3124657890E	4.10s	.13s	.17s	.22	
3142		s	-		
2134	9s	.16s	.18		
2143		s	-		
21346578E90		b			
2143658709E		B			

a = 1s.2.5.7.8.11.14.15.17s (20)
b = 1s.2.8.9.15s.18.21s
Start from rounds as the fifth row of a quick six
For 5066 call 7.13s.14.17.19.26s.27.31 for 2.13s.15s once only
NB Philip - the header should be (1342658709E) with a = 2s.3.6.8.9.12.15.16.18s

15837. 5007 Lucinda J Woodward

2314567890E	5	6	14	19	
31546278E90			a		
314265				2	
415263		-		3	
513264		-		3	
3152		-		s	
312465				2	
2134		-		s	
2134658709E			b		
3142		-		2	|
415263		-		3	|
412356	-		s	2	|A
2134		-		2	|
3142		-		2	|
3124		s		2	
214365			A		

a = 2.5.7.8.10s.14s.16.17.18.20 (20)
b = 2.7.8.13s.15.16.21s

15862. 5007 Lucinda J Woodward
(5007 (No.10))

2314567890E	6	7	9	18	19	
125463E7089			a			
245361		-	s			
435162		-	s			A
315264		-	s			
135462	-	-			-	
215364			A			
2134658709E			b			
125364		s			-	
5312	-			-	-	
342165		-	s	-		B
4312		s	s	-		C
1243	-			-	-	
21537486E90	2s	.3.	.6.	.7.	.12.15s	
214375	s					D
125374	-	-				
21436587	3s	.6.	.7.	.12		
2153748609E			D			
214375	s					
21536487E90	2s	.3.	6s.	.12.	15s	
13246578	2s	.6s.	.13s.	.15.	.16.	.18
2413	-			-	-	
3142			C			
3124			s	-		
4213			C			
2431		s	s	-		
1234657890E	9.	10.	13s.	16s.	22	
1234658709E	10s.	13s.	.15s.	.22s		
2143			B			

a = 1.2.5.8s.10.11.13s.14.15.17.20 (20)
b = 1s.2.6s.9.10.13s.18.22s
Tittums and 8 near-misses

15875. 5007 Lucinda J Woodward

(5007 (No.13))

2314567890E	6	19	
21436578E90		a	
4132	-	2	A
3124	-	2	
4123658790E		b	
3142		A	
41356287E90	1.6.19		B
412365		-	
2134	-	2	
2134658709E	2.15s		
4123		A	
41236578E90	2.13s.15s		
2143658709E		B	

a = 1.5.7.8.10.11.13s.15.16 (20)

b = 9.10.13s.15.16.18s.22

NB Philip - the 6587E90 block should be expressed as 1.A

15877. 5007 Lucinda J Woodward

(5007 (No.15))

```
2314567890E   6 19
-------------------
21546378E90     a
214365          2
-------------------
4132          -   2 |
3142          -   s |
4123          -   2 |A
2134          -   2 |
3124          -   s |
-------------------
4132657890E   2.9.10.15.16.18
2143            A
-------------------
31246587E90     b
4132            A
-------------------
4132658709E   2.15s
2143            A
-------------------
```

a = 1.5.7.8.10.11.13s.15.16.17 (20)
b = 1s.2.9s.13s.15.16.18

15879. 5007 Lucinda J Woodward
(5007 (No.16))

2314567890E	5	6	14	19	
41526378E90			a		
413652	-		s	-	B
4163		s		2	
413265	-		s	2	
4153628709E	2.	13s.	15s.	19	
412563				-	
413562		s		3	
413265		s		-	
31426578E90			b		
315462				-	
3124658709E			B		
21346578E90			b		
215364				-	
2143658709E			B		

a = 1.5.7.8.10.11.13.15.16.17 (20)
b = 2.6.9s.13s.15s.18.19

15881. 5007 Lucinda J Woodward (5007 (No.17))

2314567890E	6 19		
21536478E90	a		
5132	- 2	A	B
412365	2 2		
2134	- 2		
2153648709E	2.13s.15s.19		
213465	A		
2143658790E	3s.4.6s.11s.13s.14.16 (20)		
21437586	3s.12		
31527486E90	1s.2.6.7.9s.15.16		
21436587	3s.6.7.9s.12.16s		
2143657809E	2s.3.12.13.15s		
3124657890E	3s.5.7s.11s.13.15s.19s (20)		
21546378E90	b		
2143658709E	B		

a = 3.4.7.8.10.15.18.19.22s.24s (26)
b = 2.6.10.12s.14s.16.17.19.20 (20)
All 10 near-misses

15883. 5007 Lucinda J Woodward
(5007 (No.18))

2314567890E 1 6 19

314265 a

4132 - s
3124 - 2

31246587E90 1s.2.13s.15s

2143 - 2 A
4132 - 2

4132658709E 2.15s
2143 A

412365879E0 1s.6.13s.19s.22
3142 A

2143657890E b

214365879E0 B
2143658709E -

a = 5.7.8.10.11.13.14.15.16 (20)
b = 1.9.10.13s.15.16.18s.22s

15895. 5007 Lucinda J Woodward
(5007 (No.18a))

2314567890E	1		6		9	18	19		
412365					a				
2134			-				2		
2143					s	-			
41236578E90	1s.	2.	6.	15s.		19s			
215364			-						
213465			s		s	-		A	B
3142			-				2		
4132658709E	2.	6.	13s.	15s.		19s			
2143					A				
412365879E0	1s.	6.	13s.	19s.		22			
3142					A				
4132657890E					b				
214365879E0					B				
2143658709E	-								

a = 5.7.8.10.11.13.15.16 (20)
b = 1.6.7s.10s.13s.15.16.19s.22s

15887. 5007 Lucinda J Woodward

(5007 (No.19))

```
2314567890E  6  7 16 19
-----------------------
41526378E90       a
412365               2
-----------------------
514263          -  s  -  |A  |
314265       2        s  |   |
-----------------------      |B
2134              A          |
512364          -  s  -      |
214365       -               |
-----------------------
3142657890E  2.7s.9.10.15.16
4132              B
-----------------------
21346587E90  1s.2.7s.9s.13s.15.16
3124              B
-----------------------
4123658709E  2.7s.9s.15.16
2143              B
-----------------------
a = 1.5.7.8.10.11.13.15.16.17 (20)
```

NB Philip - the last two courses of B should be expressed as "A omitting last course"

15839. 5007 Lucinda J Woodward
(5007 (No.1a))

2314567890E 5 6 14 19		
31546278E90 a		
314265 2		
4123 - 2	A	
2134 - 2		
2143 s 2		
3124 A		
2134658709E b		
4123 A	B	
415263 -		
412356 - s 2		
3142 A		
3124 s 2		
214365 B		

a = 2.5.7.8.10s.14s.16.17.18.20 (20)
b = 2s.3.6.9s.12.13.15s.18.19

15838. 5007 Lucinda J Woodward
(5007 (No.2))

2314567890E	6	9	18	19	
41236578E90			a		
215364	-				A
213465	s	s	-		
315462	-				
314265	s	s	-		
3142658709E	2.7s.	13s.	15.	16	
2134			A		
21347568E90	2.13.	15s			
3124	-			s	
3142		s	-		
4132	-			s	
4123		s	-		
2143	-			s	
21436578	4.7s.	16.	17		
3124			A		
3124657890E	5s.	10s.	13.	14.	22
3142		s	-		
31426587E90	1s.	2.	13s.	15s	
2134			A		
3124	-			s	
4132			A		
4132658709E	2.15s				
2143			A		

a = 1.5.7.8.10.11.13.15.16 (20)

15893. 5007 Lucinda J Woodward

(5007 (No.20))

```
2314567890E  5  6  9 18 19
-----------------------------
21435678E90  1.4s.9s.17
-----------------------------
4123            -       s |
4132              s  -    |
3142            -       s |A
3124              s  -    |
2134            -       s |
-----------------------------
213465E9780  3.8s.10s.12s.21
2143              A
-----------------------------
2143568709E  1.2.3.8s.10s.12s.21
2134              A
-----------------------------
21346578E90       a
2143              A
-----------------------------
214356E9780  3.8s.10s.12s.21
4123            -       s
4132              s  -
3142         3  -       s
3124              s  -
2134            -       s
-----------------------------
2134658709E  1.2.3.8s.10s.12s.21
2143              A
```

a = 2.4.5.7.8.10s.13s.18.20s (20)

NB Philip - this is best expressed as a two-part, figures running to 2134568709E, X instead of A in the Whittington block and two footnotes "X = A with 3 bobs at 5 preceeding the 3rd course in the second part only" and "Repeat, calling 2.4.5.7.8.10s.13s.18.20s for the first course"

15894. 5007 Lucinda J Woodward
(5007 (No.21))

2314567890E	5	6	9	18	19	
41236578E90			a			
512364		2			s	A
213465		-	s	-		
3142		-			2	
314256E9780	3.8s	.10s		.12s	.21	B
4132		-			s	
312546	-		s	-		
5132	9s	.16s	.18			
3152		-			s	
512436	-		s	-		
213456	-					
4123658709E			b			
3142			A			
41326578E90	2.6	.13s		.15s	.19s	
2143658709E			B			

a = 1.5.7.8.10.11.13.15.16 (20)
b = 1.2.3.8s.9.10.12s.16s.18.21

15841. 5007 Lucinda J Woodward

(5007 (No.3))

```
2314567890E  5  6 19
31425678E90     a
4132            -  s
416352             -
612354          -
413265       s  2  2
4132658709E     b
413256          A
41235687E90     c
2143567809E     B
21345678E90     c
213465          A
2134658709E     b
3142            -  2
4123            -  2
2143            -  s
```

A | B

```
a = 1.6.8.10.11.12.13.15s (20)
b = 2s.3.7.8.12.13.15.16.21s
c = 2s.3.8.9.12s.15s.18.21s
```

NB Philip: this is basically a 3-part composition (c for a in parts 2+3, omit 6.19s in part 3 and call 6.19 19 6.19 19 6.19s instead of the final A block), and looks neater when displayed as such - but I don't think I can make SPAFT show it in the way I wish to.

15843. 5007 Lucinda J Woodward
(5007 (No.4))

2314567890E	6	9	18	19	
41236578E90			a		
512364	2			s	A
213465	-	s	-		
3142	-			2	
2134657890E			b		
3124	-			s	B
3142		s	-		
4132	-			s	
4123		s	-		
2143	-			s	
31246587E90			c		
3142			B		
2143658790E			d		
4123658709E	6	10	11	19	20
3142			A		
41326578E90	2	6	13s	15s	19s
2143			A		
3142658790E			e		
4132658709E	6	10	11	19	20
2143			A		

a = 1.5.7.8.10.11.13.15.16 (20)
b = 5s.9.10.13.14.16s.18.22
c = 1s.2.9s.13s.15.16.18
d = 9.10.13s.16s.18s.22
e = 5s.9.10.13.14.15.16.18s.22

15845. 5007 Lucinda J Woodward

(5007 (No.5))

2314567890E	6	19	
31246587E90		a	
2143	-	2	A
4132	-	2	
3142	-	s	
4123	-	2	
215364	-	3	
2143568709E		b	
4132	-	2	
3124	-	2	
312654	s	-	
31425687E90	2.15s.19		
416352		A	
4123658709E		b	
215463		A	

a = 2.5.7.8.10s.13.14.16.18s.20 (20)

b = 2.5.9s.14.15.18.19

(Omit final course of A)

15851. 5007 Lucinda J Woodward
(5007 (No.5a))

2314567890E	6	19	
31246578E90		a	
2143	-	2	A
4132	-	2	
3142	-	s	B
2134		A	
215364		-	
2143568709E		b	
2134	s	2	
4123		A	
31426587E90		c	
4132		B	
4123658709E	2.9s.15s.18		
2143		B	

a = 2.5.7.8.10s.14s.16.18s.20 (20)
b = 2.5.9s.13s.14.15.18.19
c = 2s.3.8s.9.10.12s.15.16.18.21s

15852. 5007 Lucinda J Woodward

(5007 (No.6))

2314567890E	9	16	18	
213465		a		
4123	s	s	-	
3142	s	s	-	
3124	s		-	A
4132	s	s	-	
2143	s	s	-	
21346587E90	1s.	2.	9s.	13s.15s.18
2143		A		
31527486	3s.	6.	7.	9s.12.16s
3142758609E	2.	6s.		15s
3124		A		
3142658790E	1s.	3s.	9s.	12.18
3124		A		
31246578E90		b		
3142		A		
2153648709E		c		
213465		6s.	9s.	18
2143		A		

a = 3.4.8s.10s.12.13.17.21.22
b = 2.4.5.7s.8.10s.13s.18.20 (20)
c = 2.6.7.9s.13s.15.16

All 10" near-misses
First rung Shoreditch 2/vii/95

15858. 5007 Lucinda J Woodward

(5007 (No.7))

```
2314567890E  1   6   9 18 19
-------------------------------------------
3214658709E          a
-------------------------------------------
1432                 -       -   -  |   |
1423                     s   -      | A |
2314                 -       -   -  |   | B
-------------------------------------------
2341                 s               2  |
3241                     A              |
-------------------------------------------
43216578E90  1s.7.10s.13.17.19.31 (32)
4312                     B
-------------------------------------------
2413657890E  9.10.13s.16s.22
2431                     B
-------------------------------------------
32416587E90  7.10s.13.17.19.31 (32)
-------------------------------------------
213465879E0  7s.10s.18
2143                     B
2143658709E  -
-------------------------------------------
a = 1s.2.3.7.8.10s.12.13.15s.21s
```

15859. 5007 Lucinda J Woodward

(5007 (No.8))

2314567890E	6	9	18	19		
41236578E90			a			
215364	-					
213465	s	s	-		A	
315462	-					
314265	s	s	-			B
3142658709E	2.7s.	13s.	15.	16		
2134			A			
21347568E90	2.7s.	13.	15.	16		
3124	-			s		
3142		s	-			
4132	-			s	C	
4123		s	-			
2143	-			s		
2143657890E	4.10s.	13s.	17s.	22		
2134			C			
21346587E90	1s.	2.	13s.	15s		
2143			C			
31246578	9s.	13s.	15.	16.	18.	22s
2143658709E			B			

a = 1.5.7.8.10.11.13.15.16 (20)

15861. 5007 Lucinda J Woodward

(5007 (No.9))

2314567890E	6 19	
312465	a	
21346578E90	1s.2.6.15s.19s	
315462	- 3	A
5143	- 2	
412365	- 3	
214563	- -	
2134658709E	2.13s.15s.19	
214563	A	
21356478E90	2.13s.15s.19s	
314562	- 3	B
412563	- 3	
2154	- 2	
2135648709E	2.13s.15s.19	
215463	B	
a = 5 7 8 10 11	13s.14.15.16 (20)	

(Omit last course of B)

15848. 5009 Lucinda J Woodward

2314567890E	6	7	9	18	19	
31426578E90			a			
1324		s	s	-		A
1342			s	-		
4213	-			-	-	
4231657890E			b			
3124			A			
13246587E90	1s	.2.7s	.13s	.15s		B
2431			A			
312465789E0			c			
1342		s	s	-		
1324			s	-		
1324658709E	1.2s	.13s	.15s			
2431			A			
42316578E90	2.7s	.13s	.15s			
1342658709E			B			

a = 1.5.7.8.10.11.13.14.15.16 (20)
b = 9.10.13s.18.22
c = 6.10s.13s.15s.18.19.22s

NB Philip - this is best laid out as a two-part, notating up to 2431658709E and giving the footnote "Repeat, calling 2.7s.13s.15s for a"; also, the two courses following c are better described as "A omitting last course".

15860. 5009 Lucinda J Woodward
(5009 (No.2))

2314567890E	4	6	7	16	18	19		
13426578E90				a				
4213		-			-	-		
435162					s	-		
245163			2				A	
243165		s						B
3124		-			-	-		
1324658709E	2.	13s.		15.	16			
3142				A				
13426587E90	2.	15.		16				
3154627089E	3.	12.	13.	15.	16.	19		
152463	s	-		-				
523461	s	-		-			C	
231465	s	-		-				
1324		-				s		
513462				C				
31426587E90	2.	6.	9s.	13s.	18			
31426578	13s.	15s.	22s					
1342658709E				B				

a = 1, 5, 8s, 10, 11, 13, 14, 15, 16 (20)
Each course of C contains 1 six each of E09Ts and 79E4680Ts

15886. 5009 Lucinda J Woodward

(5009 (No.2))

2314567890E	1	6	7	9	18	19		
42136578E90				a				
2431			s	s	-		A	
315264		-			-	2		B
5231		-			-	-		
134265				A				
4312658709E	2	6	13s	15s		19s		
1243				B				
231465879E0	1s	13s	16s	18		22		
2413					s			
2341					-			
41236578E90				b				
134265879E0				C				
1342658709E	-							

a = 1.5.8s.10.11.13.15 (20)
b = 1.2.6.13s.15s.18.19

15890. 5014 Lucinda J Woodward
(5014 / 5026 / 5021 (No.2) / 5033 / 5045)

213547698E0	6	7	9	16	18	19
32415678E90	1.3.4.6.7.9s.12s.17.19s (19)					
4231	-		s		-	-
2413		s	s		-	
4132				A		
3142	-					s
13579E24680				b		
1324658709E				c		
2413	-				-	-
4213				x		
215364	-			s		
314265				y		
3152E476098				d		
32416587E90	2.3.13.18.19					
23517486	3s.6.7.12					
3251748609E	2.15.16					
324175	s					
32415768E90				a		
2341		s				
2341758609E				a		
235174	s					
32517486E90	2.15.16					
23416587	3s.6.7.12					
5341E276980				e		
31426578E90	1.3s.7.9s.13					
2314				3A		
2314657890E				f		
3241		s	s		-	
32416587	1s.2s.10s.13s.15s					
3124658709E	10s.18					
1342				B		

a = 2.4.5.7.8.10s.13s.18.20s (20)
b = 3.5.6.8.12.14.15.16 (16)
c = 1.5s.6.7.10.11.18.19.20 (20)
d = 2.4.5.6.7.8.9.13s.17s (20)
e = 2s.4.5.7.8.9.10.14.15.16.18 (18)
f = 12.14.15.16.17.18.19 (20)
x = 3.4.12s.16.17
y = 3.4.9s.12s.16.17.18.19

Start from rounds as the fifth row of a slow six
Queens, Tittums, Single and Double Whittingtons
All 10 near misses
93 801s; 4,5,6,7 only in 56
a = 1.6.8.10.11.12.13.15.16 for 5021
= 1.2s.7s.9s.15s.18 for 5033/5045
f = 10s.13s.22 for 5026/5045
For 5021/5033/5045 use conventional start
First rung Newgate 2,5/11/55
NB Philip - the header should be (3241658709E) with a as the opening course

15844. 5016 Lucinda J Woodward

132547698E0	2	6	13	15	19		
31456278E90			a				
315264					2	A	
314265		s			3		
31456287	s	s	s	s	-		B
314265			A				
3145628709E	-	s		s	-		
314265			A				
4123			-		2		
21456378E90	-	-	s	s	-		
2143658709E			B				

a = 1.6.7.8.12s.14.15.20s (21)

Start from rounds as the first row of a slow six

NB Philip - the opening course should of course read 2.7.8.9.13s.15.16.21s from (2143658709E) but I can't make SPAFT display it as such

15869. 5017 Lucinda J Woodward

(5017 (No.2))

1234567890E	6 19	
21435678E90	a	
4132	- 2	
316254	- 3	
314265	5.11s.14s.19.20	
4123	- 2	
2143	- s	A
2145638709E	2.6s.13s.15s.19	
413562	- 3	
312564	- 3	
213465	- -	
215364	-	
214356	5.14s.19s	
21345678E90	2.9s.13s.15s.18	
2143658709E	A	

a = 1s.2.7s.9s.15s.18

Start from rounds as the last row of a quick six

First rung Shoreditch 1/x/95

15867. 5019 Lucinda J Woodward

2314567890E	1	6	9	18	19		
4123657890E			a				
512364		2			s		
213465		-	s	-		A	
3142		-			2		
4132658709E	2.6.13s.15s.19s						
2143			A				B
2143657890E	1s.2s.13s.15s						
412365879E0			b				
3142			A				
4132657890E			c				
214365879E0			B				
2143658709E	-						

a = 1.3.4.8s.9.10.12.13.16s.17.21.22
b = 1s.6.10s.13s.15s.19s.22
c = 1.2.6.13s.15s.19s

For 5007 (No.11) call a = 1.5.7.8.10.11.13.15.16

1. 5020 Lucinda J Woodward

```
321547698E0  9 16 18
-------------------
142365879E0  2.4.7.9 (10)
-------------------
3241         s  s  2 |A
1234         s  s  - |
-------------------
23148765E09     a
4321         s  s  -
-------------------
3142658709E  4.7.9s.10.11.13s.17s.19.22
4321           3x
-------------------
13246578E90  2.7s.9s.13s.15.16
1243             A
-------------------
2143658790E     b
-------------------
2143657809E     c
-------------------
43216578E90  2.6.15s.18.19
4213             A
-------------------
2314657890E     d
-------------------
32416587E90     e
32417586     3s.12
235174       6s.16s
3251             s
-------------------
2351748609E  2.15.16
2153         3.4.12s.17.18
21536487     3.4.12.17s
21437586     3s.6s.12
-------------------
134275869E0     d
1234              -
14326587     3s.9s.12
1324             A
-------------------
1324658709E     f
2143           3x
-------------------
a = 4.7.9s.10.11.13s.17.19.22
b = 7s.12.14.16s.17.18.19 (20)
c = 2.12.14.16.17.18.19 (20)
d = 7s.9s.12.14.15.16.17.18.19 (20)
e = 1s.2.7s.9s.13s.15s.18
f = 2.10s.12.14s.16.17.18.19 (20)
x = 3.4.12s.16.17.18
Start from rounds as the third row of a quick six
All 5032 and 5044 singles are 7s.9.10.13s.22 for d once or twice respectively, in either combination.
5020 contains 114 80Ts
5032 contains  93 80Ts
5044 contains  72 80Ts
```

NB Philip - the header should be (3241658709E) with the opening course calling of 3.5.8.10 (Joseph Parker's brilliant invention); the course which brings up 3142658709E should be notated as "a s for - at 17"; similarly the course after 2.15.16 should be " x omitting 16". A propos of nothing in particular there's something about this composition I find pleasing...

15871. 5021 Lucinda J Woodward

2314567890E			
23146587E90	a		
1423	x	A	B
4123	y		
2341	x		
3241	y		
3214	A		
4213657890E	b		
2413	B		
24135678E90	c		
4213	B		
4213658790E	d		
1342	x		
13426578E90	e		
3142	B		
3142658709E	f		
1342	B		

a = 1s.2.4.5.7.8.10s.13s.18.20s (20)
b = 3s.4.6s.7.8.10.14.15.16.17 (18)
c = 2.4s.5.7.9.10.11 (20)
d = 3.4.5.7s.8.9.12s.14.15.16.18 (18)
e = 2.10s.12.14.16.17.18.19 (20)
f = 2.4.5.7s.8.10s.13s.18.20s (20)
x = 3s.5s.6.8s.11s.13.14.15 (20)
y = 6.8.10.11.12.13.15s.16 (20)

343 calls

15868. 5022 Lucinda J Woodward

```
213547698E0  6  7 16 18 19
─────────────────────────────
5634128709E      a
341265           b
─────────────────────────────
125364     -       -  2 │
5312       -       -  - │A
431265       -  s       │
1243       -       -  - │
─────────────────────────────
21436578E90  2.13s.15.16
─────────────────────────────
1324             s  -   │  │
3412             s  -   │B │
4231             s  -   │  │C
─────────────────────────────
21436587     2s.13s.15.16.18  │
4231             B            │
─────────────────────────────
2143758609E  2s.3.12.15.16.18
─────────────────────────────
125374       -  -         │D
124375       s             │
─────────────────────────────
21437586E90  2.15.16
1243             D
─────────────────────────────
2153748609E  2.6.7.15s
432175       2       s
─────────────────────────────
43216587E90  2s.3.7s.12.15.16
24136578         C
─────────────────────────────
3421658709E      c
2143             A
─────────────────────────────
a = 2.5.6.7.9.11s.12.13.17s.20s.21.23.24 (24)
b = 5.8.10.11.13.14.15.17s (20)
c = 2.6s.7.9s.13s.15.16.19s
Start from rounds as the first row of a quick six
```

NB Philip - the header should be (2143658709E) with a = 3.6.7.8.10.12s.13.14.18s21s.22.24.25

15899. 5023 Lucinda J Woodward

1234567890E 16 18				
12436587E90 a				
2314 s -	A			
3421 s -			B	
4132 s -				
21346578 4s.7s.10.12.13.19 (20)				
3241 A				C
3124658790E 10s.13s.15s.18.22				
3241 2				
3142658709E 10s.18s				
21436578 B				
12436578E90 2.15.16				
2143658709E C				

a = 1.2.3.5.6.9s.11.12.15.19.27 (31)

Start from rounds as the last row of a slow six.

The round block of 3.4.12s.17s may be incorporated into any course of the A block to taste (calling 3.4.12s.16.17.18)

15849. 5025 Lucinda J Woodward

1234567890E	6	9	18	19	
31526478E90			a		
314265	s				
4231	-		-	-	A
4213			b		
1342	-		-	-	
1324			b		
3124			A		
3124657890E			c		
1324			A		
31246587E90	1s.	2.	13s.	15.	16
1324			A		B
31527486	3s.	7s.	12.	19	
324175	s	s			
3142		s			
3124658709E			f		
31427586			B		
31426587E90	2s.	3.	12.	15s	
1342			A		
3142657890E	10s.	13s.	15.	16.	22
1342			A		
3142658709E	1s.	13s.	15.	16.	22s
1342			A		

a = 1s.3.6.7.12.15.16.20 (21)
b = 6.7.8.10.11.12.13.15s (20)
c = 12.14.15.16.17.18.19 (20)
f = 2s.3.9s.12.15s.18

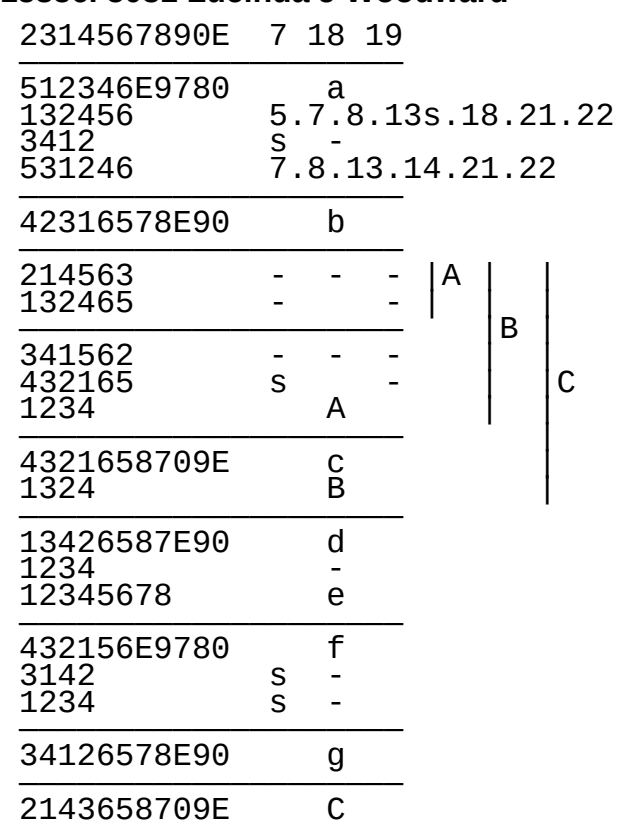
Start from rounds as the last row of a slow six
24 each 6578E90 657890E 6587E90 658709E
8 near-misses

15896. 5026 Lucinda J Woodward

2314567890E	6	9	18	19		
41235687E90			a			
2143	-			s	A	B
2134		s	-			
3124	-			s		
3142		s	-			
4132	-			s		
41326578			b			
4123			A			
4123658709E	2.13s.15s					
512364	2			s	C	
213465	-	s	-			
3142	-			2		
4132	-			s		
2143			C			
3124657890E			c			
31246587E90			d			
31245678			B			
3124567890E			e			

a = 1.2.6.9.11.12.18.24.29 (34)
b = 4.5.7.8.10s.13s.18 (20)
c = 1s.4s.10.12.13.16.19 (20)
d = 2.10s.12.14.16.17.18.19 (20)
e = 12.14.15.16.17.18.19 (20)

15856. 5031 Lucinda J Woodward



a = 1.2.4s.5.7.8.9.11s.12.15.19.21.22.23.24.25.26 (26)
b = 3.4.5.8.12s.14s.15.16.21.22.23 (24)
c = 2.6.7.8.10.12.13.16.18s.20s (20)
d = 2.4s.6s.8s.10.11.12.14s.16 (20)
e = 4.5.7.8.10s.13s.18 (20)
f = 3s.4.7s.8.9.12s.16s.17.21
g = 1.2.3.5.7s.8.10.12.15.23.24 (26)

15880. 5031 Lucinda J Woodward

2314567890E	6	7	9	16	18	19	
21346578E90				a			
3142		-				2	A
315264						s	
413265			-	s		s	
4132657890E				b			B
2143			s	s	-		
3124			s	s	-		
31246587E90				c			
4123				A			
4123658709E	2.15s						
512364	2					s	
213465	-		s		-		
3142	-					2	
31246578E90				d			
2143658709E				B			

a = 1s.7.9.14s.16s.19s.22.26.28 (32)
b = 12.14.15.16.17.18.19 (20)
c = 2.10s.12.14.16.17.18.19 (20)
d = 2s.3.9s.12.13.15s.18

First rung Evesham 14/x/95

15898. 5038 Lucinda J Woodward

2314567890E	6	9	18	19		
41325678E90			a			
3142	-			s		
3124		s	-			
2134	-			s	A	
2143		s	-			B
4123	-			s		
41236587			b			
4132			A			
4132658709E	2.15s					
513264	2			s		
312465	-	s	-		C	
2143	-			2		
21436578			c			
41236587			d			
3142			C			
3124657890E			e			
31246578E90			f			
31245687			B			
3124567890E	12.14.16s.17.18.19 (20)					

a = 1.6.8.10s.11.12.13.15s (20)
b = 4.5.7.8.10s.13s.18 (20)
c = 1s.3.13.14.16.17.18.19 (20)
d = 6s.8s.10s.12.13.16.18s (20)
e = 3.5s.6.7.8.10.12s.14.16s.17.18 (18)
f = 2.10s.12.14s.16.17.18.19 (20)

3. 5043 Lucinda J Woodward

213547698E0	
2351648709E	2.3.11s.15.16.18s (21)
432165	3.4.7.12s.16.17.19s
345261	3.4.12s.16.17.19
421365	3.4.12s.16.17.18.19
13427586E90	2s.3.6.12.15s.18.19
215374	3.4.9s.12s.16.17.19s
1243758609E	2.15.16.19s
125374	3.4.12s.17s.19s
12436587E90	2s.3.12.15s.19s
1324	3.4.12s.17s.18
3412	3.4.12s.16.17.18
32416578	3.4.5.6.7.8.9.13s.16 (20)
4251637890E	6.12.14.15.16.17.18.19 (20)
213465	1.6.7.9s.12.14.15.16.17.18.19 (20)
315462	1.6.12.14.15.16.17.18.19 (20)
125463879E0	2s.7.10s.12.14.16.17.18.19 (20)
1234658790E	1.3.4.5.6.7.9s.11s.13s.17s (20)
1423	1s.3.4.5.6.7.9s.11s.13s.16 (20)
142356789E0	2s.4.5.7.8.10s.13s.18.20 (20)
1324567890E	1s.9s.12.14.15.16.17.18.19 (20)
2153648709E	1s.5.8s.9.10.13.14.17s.18 (20)
3124567890E	A

A

Start from rounds as the fifth row of a slow six

Commissioned by David Brown on the occasion of his 30th peal, and first rung Cambridge 6/i/96.

NB Philip - this is a two-part, the header should be (32416587E9) with first course 3.4.12s.16.17.19s, and the figures given up to 1324567890E with a footnote "Repeat, calling 1s.5.8s.9.10.13.14.17s.18 for the first course".

15846. 5050 Lucinda J Woodward

2314567890E	6 19	
31426578E90	a	
4123	- 2	A
2134	- 2	
3124	- s	
4132	A	B
413265879E0	10s.13s.15s.22s	
2143	A	
4123	- s	
2145638709E	1.6.19	
213465	-	
3142	- 2	
4132	- s	
2143	A	
2143657890E	1s.13s.15s.22s	
3124	A	
2134	- s	
31245687	b	
21435687E90	c	
3124	A	
3124567890E	d	

a = 1s.3.5s.8s.12.18.20.23s.25 (34)
b = 5.8s.10s.13.14.16.18s (20)
c = 2.6.8s.10.12s.14s.16.18s.20 (20)
d = 12.14.16s.17.18.19 (20)

NB Philip - from 413265879E0 to 2134657890E should merely be shown as "1.B calling 1s instead of 10s" - but I don't think SPAFT can show this

15885. 5050 Lucinda J Woodward (5050 (No.2))

2314567890E	6	10	13	15	19	22	
21436578E90				a			
4123		-			s		A
2134		-			2		
312465879E0	-	s	s	s	s	s	
3142				A			
4132658709E				b			
2134657890E				B			
21346587E90				c			
2143				A			
4123		-			s		
3142657890E				d			
2143658709E				B			
412365879E0	1s	.	6	.	13s	.	19s . 22
31246578E90				B			
3124567890E				e			

a = 3.5s.11.13s.14.17.20.25s (30)
b = 1s.2.6.11s.15s.19.20
c = 1s.2.13s.15s
d = 9.10.13s.15.16.18.22
e = 2s.4s.5.7.9s.11 (20)

First rung Southwark 21/x/07

15857. 5055 Lucinda J Woodward

2314567890E	1	6	7	9	18	19		
2134658709E				a				
34216587E09	-	-			-	-		
4312		-	-			2	A	
1243		-			-	-		
213465879E0				A				B
1243658709E				A				
21436587E90	2.		15.			16		
4321		-			-	-		
3412		-	-			2		
1234		-			-	-		
1234657890E	10s.		13s.		15s.	22		
2143			s	s	-			
12436587E90	1s.	2.	13s.		15.	16		
4312		-			-	-		
3421		-	-			2		
2134		-			-	-		
1234658709E	2.		15.			16		
2143				B				

a = 1s.3.4.5.6.7.8.14.19.21s.22.24.25.28 (28)
For 5043 call 12.14.16s.17.18.19 for 10s.13s.15s.22

NB Philip - the A block should be described without the bob at 1 - the two following blocks within the B block thus described as 1.A - but I can't make SPAFT do this

15876. 5061 Lucinda J Woodward

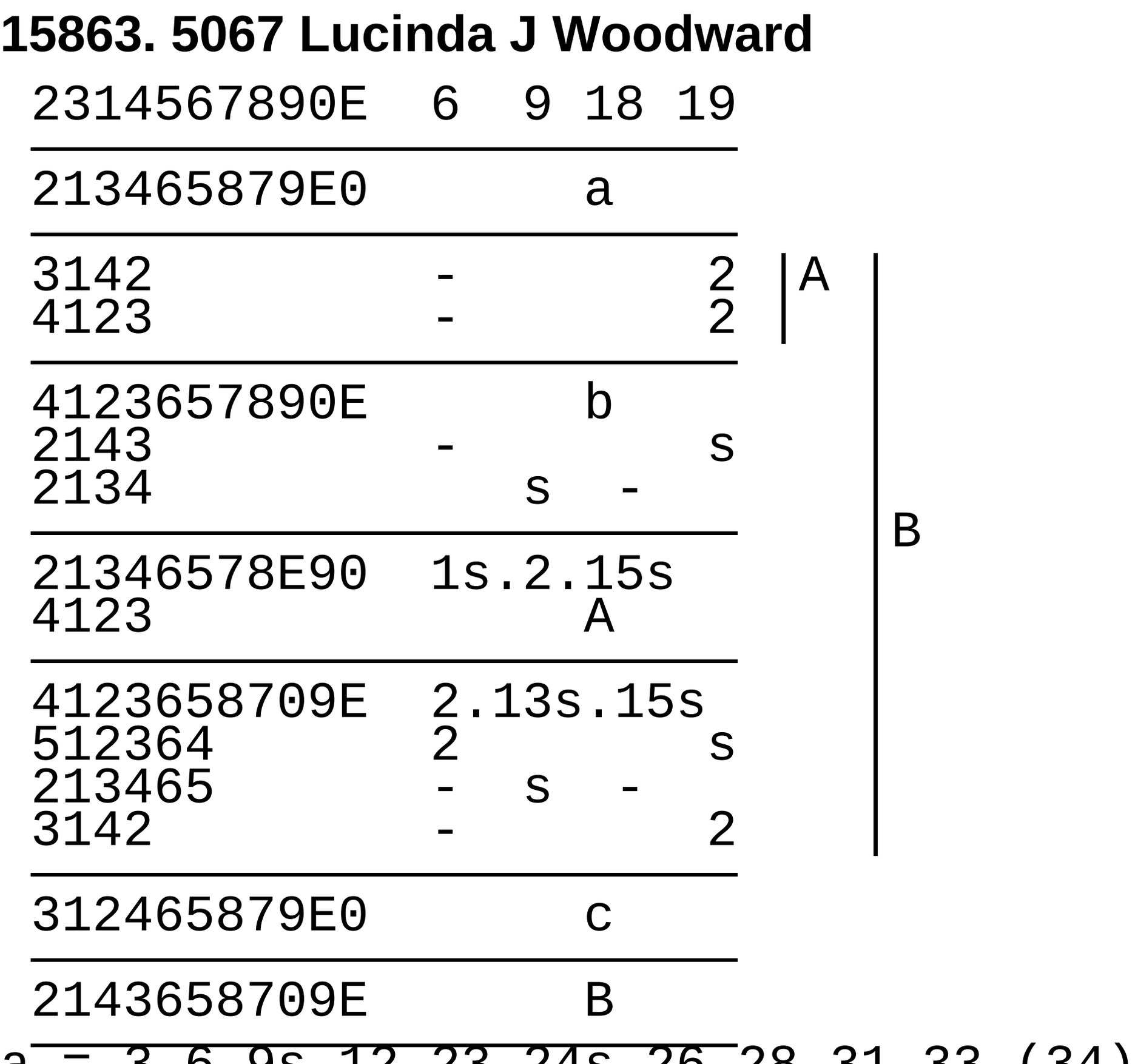
```
1234567890E  6  7 16 18 19
-----------------------------
243165879E0        a
-----------------------------
4123            -     s  -  |  |
1342            -     s  -  |A |
3214            -     s  -  |  |
-----------------------------
2314657890E  13s.15.16.22     |
2143         4s.9s.17         |
-----------------------------
12436578E90  1s.2.7s.15s      |B
4132               A          |
-----------------------------
2431658709E  2.9s.13s.15.16   |
315264       -        -  2    |
5231         -        -  -    |
423165          -  s          |
3142         -        -  -    |
-----------------------------
123456E9780        b
3412         -        -  -
315246       5.7s.14s
5132         -           s
324156       5.18s
2341               s
-----------------------------
143265879E0        c
3124               A
-----------------------------
1324657890E  13s.15.16.22
1243         4s.9s.17
-----------------------------
32416578E90  1s.2.7s.9s.15.16
4312               A
-----------------------------
2413658709E  2.9s.13s.15.16
135264       -        -  2
5213         -        -  -
421365          -  s
1342         -        -  -
-----------------------------
a = 1s.4.6.7.8.10.11.14.17s.22.23.25s (25)
b = 3s.4.7.10.12.15s.16.17.20s.22s (24)
c = 3.5.8.13.16s.18.19.21.22.23.24 (24)
Start from rounds as the last row of a slow six
```

NB Philip - the remainder of the Peal after c should be expressed as "B calling 1s.2.7s.9s.15.16 in place of 1s.2.7s.15s"

15891. 5062 Lucinda J Woodward

a = 3.4.7s.8.11s.15.17s.19.22 (26)
b = 3s.4.5.7s.9.13s.19 (20)
c = 2.3.5.14s.16.18.19.20 (20)
d = 3.5s.6.7.8.10.12s.14.16s.17.18 (18)
e = 1s.3.13.14.16.17.18.19 (20)
f = 2.6.8s.10s.12s.14s.16.18s.20 (20)
g = 2.4s.5.7s.8.9.12s.14s.15.16.17 (18)

15863. 5067 Lucinda J Woodward



a = 3.6.9s.12.23.24s.26.28.31.33 (34)
b = 2s.10s.12.14.16.17.18.19 (20)
c = 5s.9.10.13.14.18.22

The opening course must be called as shown

15873. 5067 Lucinda J Woodward

(5067 (No.2))

2314567890E	6	19		
21436578E90		a		
4123	-	s	A	
415362		s		
213564	2	2		
3152	-	2		B
2153648709E		b		
314265		A		
3152647890E		c		
513462	-	-		
213564	2	-		
213465	s	-		
3142	-	2		
41326578E90	1.6.19s			
415263		s		
312564	2	2		
2153	-	2		
3152648709E		b		
214365		A		

a = 1s.7.9.14s.19s.22.26.28.29 (32)
b = 2.6s.9s.13s.15.16.18.19
c = 3.6s.13.14.16.17.18.19.(20)

NB Philip - the remainder after 3142657890E should be expressed as 1.B

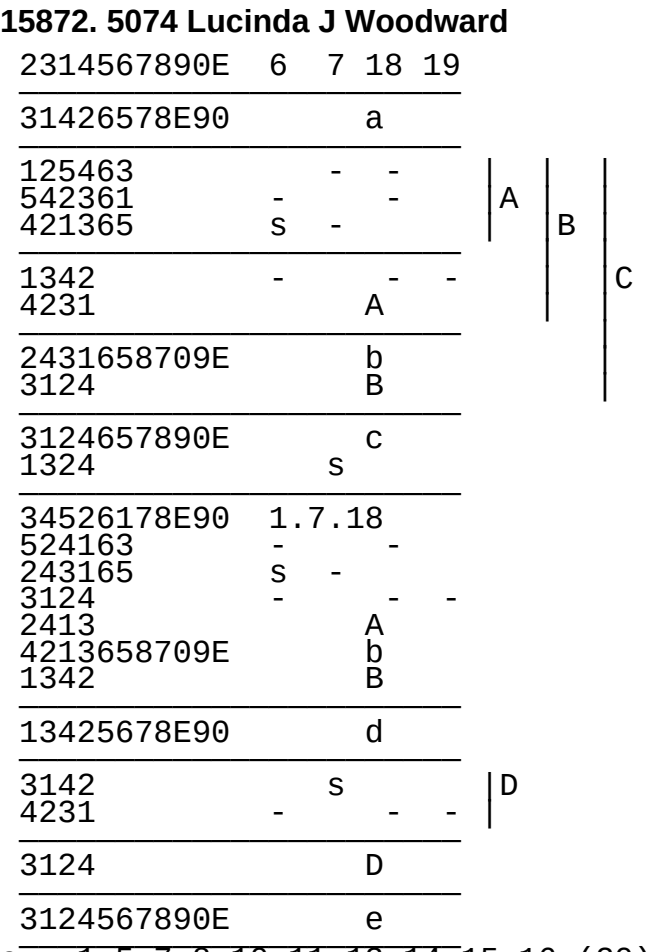
15850. 5069 Lucinda J Woodward

2314567890E	6	7	9	18	19		
4231658709E			a				
2413		s	s	-		A	
135264	-			-	2		
5213	-			-	-		B
314265			A				
31426578E90	2.13s.15s						
4231	-			-	-		
4213			b			C	
1342	-			-	-		D
1324			b				
3124			C				
135246E9780			c				
5312	-				s		
132456	5.8.9.13s.18.21.22						
3412	7.8.13s.18.21.22						
4321	7s.8.9.13s.18.21.22						
3142	7.8.13s.18.21.22						
1234	7.8.13s.18.21.22						
24315678E90			d				
2413			D				
4213658709E			e				
1342			B				

a = 1s.2.3.7.8.9.10.12.13.15.16.18.21s
b = 6.7.8.10.11.12.13.15s (20)
c = 3.6.7.8.10.12s.18s.21
d = 3s.4.7.8.12s.17.18.21
e = 2.4.5.7.8.10s.13.14.18.20s (20)

24 each 65879E 65879E 65879E 56789E0 56789E0 56789E0 56789E0 56879E 56879E 65879E 65879E 65879E0 65879E0.
135246, 531246 and 123456 Whittington course ends.

15872. 5074 Lucinda J Woodward



a = 1.5.7.8.10.11.13.14.15.16 (20)
b = 2.4.5.7s.8.10s.13.14.18.20s (20)
c = 3.13.14.16.17.18.19 (20)
d = 1s.2.4.5.7.8.10s.13s.18.20 (20)
e = 12.14.15.16.17.18.19 (20)
For 5086 call e 10s.13s.20
NB Philip - the block between 1324657890E and 13425678E90 should be expressed as 1.C

15874. 5079 Lucinda J Woodward

2314567890E	6	19	
21436578E90		a	
4123	-	s	A
415263		-	
413265		s	
3142	-	s	
315462		-	
312465		s	
2134	-	s	
215364		-	
2145638709E	2.13s.15s.19		
215364		2	B
5132	-	2	
314265	-	3	
4123	-	2	
41236587E90	2.7s.15.16		
415362		A	
4125638709E	2.15s.19		
214365		B	

a = 1s.7.9.14s.19s.22.26.28.29.(32)

For 5007 (No.12) call a = 1.5.7.8.10.11.13s.15.16

15870. 5080 Lucinda J Woodward

```
321547698E0  6  7  9 18 19
──────────────────────────
142365879E0  2.4.7.9 (10)
──────────────────────────
2431         -        2 |
3412         -        2 |
1234         -     -  - |
──────────────────────────
3412658709E  1.6.18.19    |A
4321            s  s  -   |
352164          -         |
2135         -     -  -   |
2153             s  -     |
124365       -  -          |
──────────────────────────
23146578E90  2.13s.15.16.18
──────────────────────────
1423         -     -  - |  |
1432             s  -    |B |
3214         -     -  - |  |C
──────────────────────────  |
3241             s  -    |  |
2341             B       |  |
──────────────────────────
1342657890E  9.10.13s.16s.18s.22
3142             B
3124             s  -
2431         -      -  -
2413             s  -
──────────────────────────
241365879E0  13s.15s.22
──────────────────────────
2143658709E      A
──────────────────────────
```

Start from rounds as the third row of a quick six

Composed especially for Clifford Bird's 80th birthday

NB Philip - the header should read (32416587 09E) and the opening course 3.5.8.10; the 657890E block after 9.10.13s.16s.18s.22 should read "C omitting last course"

15901. 5083 Lucinda J Woodward

1234567890E	6	19		
31526478E90		a		
314562		-	A	B
412563	-	3		
213564	-	3		
312465	-	-		
3124657890E		b		
3154628709E		c		
314265		A		
2143657890E		d		
21536478E90		e		
2143658709E		B		

a = 1s.3.6.7.12.15.16.20 (21)
b = 12.14.15.16.17.18.19 (20)
c = 2.6s.12.14.16.17.18.19 (20)
d = 2s.7s.9.10.13s.15.16
e = 2.6s.10s.12.14s.16.17.18.19 (20)
Start from rounds as the last row of a slow six

15888. 5088 Lucinda J Woodward

```
321547698E0  6  7  9 18
-------------------------
31246587E90  1s.2.6s.8s.11s.14s.17 (21)
-------------------------
2431            b     |   |
4231          s       |   |
312564      -       -  |A  |
3152          s   -    |   |
134265      -  -       |   |
-------------------------   |
1342657890E     c           |
1234              -         |
12346587        d           |B
1243              s  -      |
-------------------------   |
21435678E90     e           |
4321            b           |
431265          f           |
1243            b           |
-------------------------   |
1324658709E  2.13s.15s.18   |
3142            A           |
-------------------------
13246587E90     a
1342658709E     B
-------------------------
```

a = 2s.3.7s.9s.12s.15s.18
b = 6s.8s.10.11.12.13.15 (20)
c = 2s.12.14.16.17.18.19 (20)
d = 1s.3.13.14.16.17.18.19 (20)
e = 2.4.5.7.8.10s.13.14.18.20 (20)
f = 5.7.8.10.11.13s.15s (20)

Start from rounds as the third row of a slow six.

Mr Philip - this as you can see is a perfect two-part. The header should be (1342658709E) with a being the first course and the figures running to the halfway point of 3142658709E, with the instruction to repeat as a footnote.

5. 5089 Lucinda J Woodward

```
1234567890E  6 19
-------------------
31526478E90    a
-------------------
314265          s |
4132        -   s |
415362          - |
412365          s |A
2143        -   s |
215463          - |
213465          s |
3124        -   s |
-------------------
3124657890E  10s.13s.22
-------------------
3154628709E  10s.13s.15s.19s.22s
-------------------
312564          - |
214563      -   3 |B
413562      -   3 |
314265      -   - |
-------------------
21546387E90  2.7s.9s.15.16.19
214365         A
-------------------
2143658790E  10s.13s.22
-------------------
2154638709E  10s.19
214365         B
-------------------
a = 1.3.5s.12s.13.14.15.16.19s.23s.26.28.30s.34 (34)
Start from rounds as the last row of a quick six
```

In Memoriam John H Crampion
First rung Southwark 19/VII/00

15902. 5090 Lucinda J Woodward

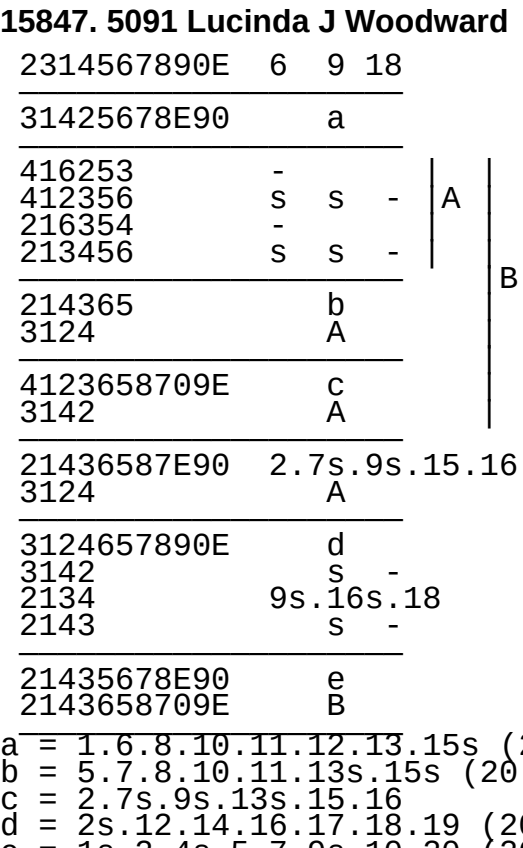
```
132547698E0 16 18 19
243165879E0  2.4.7.9 (10)
4123          s  -
1342          s  -
3214          s  -
3254618709E      a
321465              s
345261           -  -
341265              s
34126587E90  2.7s.15.16
1324             A
1354627890E      b
132465           x
315462           y
312465           x
4153628709E      c
432165           B
421365879E0  4s.9.10.13s.17.22
2143658709E      C
```

a = 2.6s.10s.12.14s.16.17.18.19 (20)
b = 6s.12.14.16s.17.18.19 (20)
c = 1.2.9s.13s.15.16.18.19
x = 1.6s.12.14.15.16.17.18.19 (20)
y = 1.6.7.12.14.15.16.17.18.19 (20)

Start from rounds as the fifth row of a quick six.

NB Philip - this is a two-part, the header should be (1342658709E), opening course 3.5.8.10 and the figures given to 4321658709E with a footnote "Repeat calling 4s.9.10.13s.17.22 for the first course"

15847. 5091 Lucinda J Woodward



NB Phillip - the course called 2.7s.9s.15.16 should be expressed as "c omitting 13s"

15884. 5100 Lucinda J Woodward

2314567890E	6	7	9	19	
42316578E90			a		
2413		-	-	2	A
1342		-	s	2	
3124		-	-	2	
3421658709E	2.9s.		13s.	15s	
2143			A		
1342657890E			b		
4321		-		2	B
2314		-		2	
42136578E90			c		
1324			A		
4321658709E			d		
2134			A		
13426587E90			e		
2314			B		
2314567890E			f		

a = 1.5.7.8.10.11.13.15 (20)
b = 1s.4s.6s.7.8.10.12s.13.14 (20)
c = 2.3.4.5.6.7.10.13s.15s.17 (18)
d = 2.4s.6.7.10.12.13.20 (20)
e = 2s.4s.5.8.10.13.15.16.19.21.27 (28)
f = 3.4.5.7s.8.9.12s.14.15.16.18 (18)

15904. 5102 Lucinda J Woodward

1234567890E	6	19			
31526478E90		a			
312465		2		B	
2143	-	2	A		C
4132	-	2			
2153648709E	2.7s.9s.13s.15.16.19				
412365		B			
2143657890E	2s.6.10s.13s.15s.19s				
3124		A			
31546278E90		b			
2143658709E		C			
21435678E90		c			
3124		A			
3124567890E		d			

a = 1s.3.6.7.12.15.16.20 (21)
b = 2.6s.10s.12.14s.16.17.18.19 (20)
c = 1s.2.4.5.7.8.10s.13s.18.20 (20)
d = 12.14.15.16.17.18.19 (20)
Start from rounds as the last row of a slow six

15882. 5109 Lucinda J Woodward

```
3124567890E 19
──────────
31526478E90  a
──────────
314265       s              │
315462       -              │
312465       s              │
──────────                  │
3152648709E  2.13s.15s.19   │
314265       s              │
315462       -              │
312465       s              │A
──────────                  │
31246587E90  b              │
──────────                  │
315264879E0  10s.19         │
314265       s              │
315462       -              │
312465       s              │
──────────
41536278E90  c
──────────
413265879E0  A
──────────
21546378E90  c
──────────
214365879E0  A
2143658709E  1
──────────
```

a = 1s.3.6.7.12.16.17.20 (21)
b = 1s.2.10s.12.14s.16.17.18.19 (20)
c = 1.2.9s.13s.15.16.18.19

Start from rounds as the fourth row of a slow six
For 5097/5087/5073 replace 2.13s.15s.19 with 2.4.5.6.7.9s.10.13s.17.20 once, twice or three times respectively
First rung (5097) Ipswich 18/4/95
NB Philip - this is a three-part; the figures should be given up to 312465879E0 with a footnote "Repeat twice calling c for a"

15865. 5155 Lucinda J Woodward

```
 1234567890E  9 16 18
 ____________________
 16543287E90     a
 312465       6.7.14s
 ____________________
 4132         s  s  -  |      |      |
 1432            x     |A     |      |
 2413         s  s  -  |      |B     |
 ____________________  |      |      |
 42136578     2s.13s.15.16|      |      |
 1324            A        |      |      |
 ____________________     |      |      |C
 1342658790E  9.10.13s.15s.18.22|      |
 2314         s  s  -          |      |
 4312         s  s  s          |      |
 ____________________          |      |
 1243658709E  6.10s.18.19      |      |
 21436578        B             |      |
 ____________________          |      |
 31246578E90  2.9s.15.16.18
 ____________________
 2143658709E     C
 ____________________
```

a = 1s.5s.7s.10.12.14s.18s.20.22.23 (23)
x = 3.4.12s.16.17
Start from rounds as the last row of a slow six.
Reduce to 5023 by substituting 6.19s for 9s.16s.18/9s.16s.18s once only (either OK).

15866. 5161 Lucinda J Woodward

```
 1234567890E  6  7  9 16 18 19
 ____________________________
 12436578E90  1.5.7.8.10.11.13s.15s (20)
 ____________________________
 4312         -          -  -  |  |
 432156            a          |A |
 2143         -          -  -  |  |B
 ____________________________  |  |
 213465            a          |  |
 123456            A          |  |
 ____________________________  |
 2134658709E       b          |
 ____________________________
 123564       -  -            -  |
 2153            s  s     -     |C
 124365       -  -               |
 ____________________________
 12436587E90  2.15s
 ____________________________
 3214               s  s  -     |
 2314                  s        |D
 4321               s  s  -     |
 ____________________________
 4321658709E  2.15s
 352164          -
 5321            s
 342165          -
 ____________________________
 34215678E90       c
 341265            B
 ____________________________
 4312658709E       d
 351264          -
 5312            s
 341265          -
 ____________________________
 34216587E90       e
 2143              D
 ____________________________
 1234658709E  2.7s.8.9.15s.18.21s
 2143              C
 ____________________________
```

a = 5.7.8.10.11.13s.15s (20)
b = 1.2s.4.5.7.8.10s.13.14.18.20 (20)
c = 2.4.5.7.8.10s.13s.18.20s (20)
d = 2.4.5.7s.8.10s.13.14.18.20s (20)
e = 2.8.9.15s.18.21s
Start from rounds as the last row of a quick six
NB must be called as shown
Reduce to 5029 by substituting 19 for 6,7,19/7s,9s,18 in one C block (either).
NB Philip - the opening course should be notated as f.a, the final turning course should be notated as e adding 7s

15900. 5232 Lucinda J Woodward

```
132547698E0  1  6 19
_____________________
2143657890E  2.12.13.15.16.17.18 (19)
415362          -
_____________________
41256378E90  -     -  |
213564          -  3  |A
314562          -  3  |
413265          -  -  |
_____________________
413265879E0     a
415263          s
_____________________
4123658709E     A
_____________________
4123657890E     a
215364          -
_____________________
21346578E90     A
_____________________
213465879E0     a
215463          s
_____________________
2143658709E     A
_____________________
```

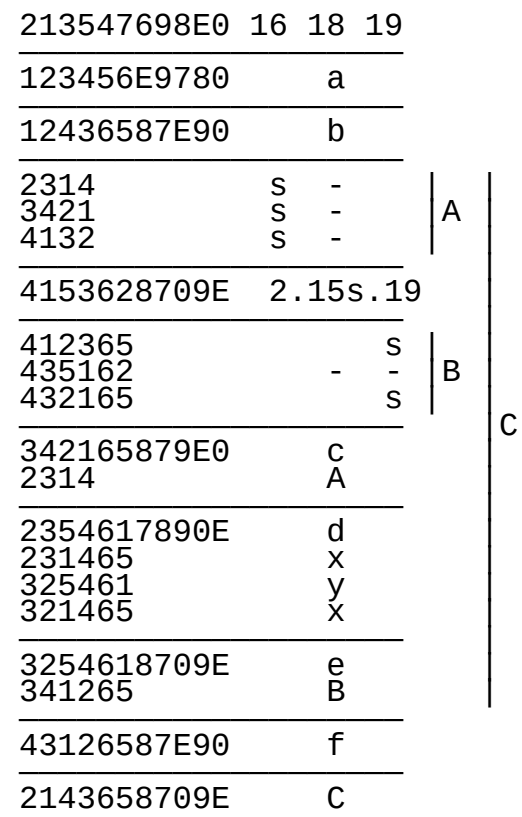
a = 3.13.14.16.17.18.19 (20)

Start from rounds as the first row of a slow six

Reduce to 5100 by incorporating the stravaiging at 6 into a once only

NB Philip - the header should be (2143658709E) with the opening course being a

4. 5250 Lucinda J Woodward



a = 1s.2.7.8.11.14.15.16.17 (20)
b = 1s.3.8s.9.10.12s.18.21
c = 7s.12.14.15.16.17.18.19 (20)
d = 2s.6s.10s.12.14.16.17.18.19 (20)
e = 2.6s.12.14.16.17.18.19 (20)
f = 2.4s.6s.9s.10.12s.20 (20)
x = 1.6s.12.14.15.16.17.18.19 (20)
y = 1.6.7.12.14.15.16.17.18.19 (20)

Start from rounds as the first row of a quick six
Ringing Croydon 13/V/97
NB Philip - the header should be (2143658709E) with the opening course 2s.3.8.9.12.15.16.17.18

15903. 30068 Lucinda J Woodward

```
213547698E0  6  7  9 18 19
234156E9780        a
4123         -       -  -
4132            s    -
3241         -       -  -
3214            s    -
1432         -       -  -
1423            s    -
2314         -       -  -
532146       6.7.8.10s.11.13s.15s (20)
5312            A
431265879E0  3s.5.7s.8.12s.13.15.16.17.19.21.23s.24 (24)
435261       s
342165       -  -  s  -
215364       -       -  2
5321         -       -  -
124365          B
4312657890E  6.13s.15s.18.19.22
1243            C
43126587E90  2.6s.8s.9.10.12.13.16.18s.20 (20)
1243            C
4312758609E  2s.3.6.12.15s.18.19
215374          B
53217486E90  2.6.15s.18.19
124375          B
12437568     2.3.12.13.15s
2134            s  s  -
3421         -       -  -
4312            s  s  -
43127586     2.3.12.13.15s
1243758609E     E
431265789E0  2.6.10s.13.15s.18.19
12436578E90     D
4312658709E  2.6.13s.15s.18.19
1243            C
3412876590E  4.7.9s.10.11.16s.17.19
1234            F
21348765E09  2.15.16
3421            F
3421E098765  4.5.7.8.18.19 (20)
3412            A
34128765E09  1s.2.8s.12
1234            F
2134876590E  2.15.16
3421            F
432165879E0  1.4.10.11.16.17.20
2143658709E     G
a = 2.4s.5.7.9s.10.12.13.15.17s.18.21.23s.24 (27)
```

Start from rounds as the fifth row of a slow six
Anyone fancy this one then?

14510 5007 Robin E H Woolley

(No 13d)

```
 2314567890E   6 19
 ------------------
 41326578E90     a
 3124          -  2
 ------------------
 3142          s  2 |
 4123          -  2 |A
 2134          -  2 |
 2143          s  2 |
 ------------------
 3124657809E     b
 2143            A
 31246587E90     c
 2143            A
 3124658709E     b
 2143            A
 ------------------
a = 1.5.7.8.10.11.13.15s.16 (20)
b = 2.9s.15.16.18
c = 2.9s.13s.15.16.18
```

472. 5007 Robin E H Woolley
(No 13f)

2314567890E	6	9	18	19	
21546378E90			a		
214365				2	
214563	s			-	
412365	-			-	
4132		s	-		
413562	s			-	A
314265	-			-	
3124		s	-		
312564	s			-	
213465	-			-	
2134657809E			b		
2143			A		
21436587E90			c		
2134			A		
2134658709E			b		
2143			A		

a = 1.5.8s.10.11.13s.15s.17 (20)
b = 2.15s
c = 2.13s.15s

14507.5007 Robin E H Woolley

(No 22c)

2314567890E	6	9	18	19	
4123567890E	1.2s.	6.	7s.	9s.15.16.18.19	
2134	-			2	A
2143	s			2	
4123568709E		b			
2143		A			
41235687E90		c			B
2143		A			
4123567809E		b			
2134	-			2	C
2143		s	-		
41236587E90		d			
2143		C			
4123658709E		B			
2143		A			

b = 2.6.13s.15s.19s

c = 2.6.15s.19s

d = 1.2s.5.8s.10s.13.14.16.18s.20 (20)

470. 5007 Robin E H Woolley

2314567890E	6	19	
41326578E90		a	
3124	-	2	
3142	s	2	A
4123	-	2	
2134	-	2	
2143	s	2	
312465709E		b	
2143		A	
31246587E90		c	
2143		A	
312465709E		b	
2143		A	

a = 1.5.7.8.10.11.13.s15.16 (20)
b = 2.s9.15.16.18
c = 2.s9.s13.15.16.18

471. 5007 Robin E H Woolley

2314567890E	6	9	18	19	
41235678E90			a		
2134		-		2	A
2143		s		2	
4123568709E			b		
2143			A		
41235687E90			c		
2143			A		
4123567809E			b		
2134		-		2	B
2143			s -		
41236587E90			d		
2143			B		
4123657809E			b		
2143			A		
41236578E90			c		
2143			A		
4123658709E			b		
2143			A		

a = 1.s2.6.s7.s9.15.16.18.19
b = 2.6.s13.s15.s19
c = 2.6.s15.s19
d = 1.s2.5.s8.s10.13.14.16.s18.20 (20)

473. 5007 Robin E H Woolley

(No 22f)

2314567890E	6	9	16	18	19		
43215678E90			a				
2143	-			-	-		
2134		s		-			
3421567809E			b				
2134	-			-	-		
1234			s			A	
1243		s		-			
2143			s				B
43215687E90			c				
2134			A				
3421568709E			b				
2143			A				
43216578E90			d				
2134			A				
2143658709E			B				

a = 1s.2.9s.15.16.18
b = 1.6.9s.13s.19s.22
c = 1.6.9s.13s.15s.19s.22
d = 2.5.8.9.10s.13.14.16.18s.20s (20)

474. 5007 Robin E H Woolley

(No 34b)

2314567890E	6	7	18	19	
21546378E90			a		
214365				2	
1324		s	-		A
3412		s	-		
4231		s	-		
2413	-	-		2	
4321		s	-		
3142		s	-		
1234		s	-		
1234657809E			b		
2143			A		
21436587E90			c		
1234			A		
1234658709E			b		
2143			A		

a = 1.5.7.8.10.11.13s.15.16.17 (20)
b = 2.15s
c = 2.13s.15s

475. 5007 Robin E H Woolley

(No 66c)

2314567890E	5	6	14	18	19	
21645378E90			a			
214356					2	
4321		-		-	-	
4312		s			2	
1243		-		-	-	
1234		s			2	A
3412		-		-	-	
3421		s			2	
2134		-		-	-	
216534	-		s		-	
214365	-		s		-	
2134			A			
2153648709E			b			
213465					2	
2143			A			

a = 1s.2.6.8s.10s.12s.17.18s.20s (20)
b = 2.13s.15s.19

476. 5007 Robin E H Woolley
(No 70b)

2314567890E	6	16	18	19		
21546378E90			a			
214365				2		
4321		-	-	-		
3421			s			
2134		-	-	-		
1234			s		A	
3412		-	-	-		B
4312			s			
1243		-	-	-		
654321		7.14s				
214356		7.14s				
1243			A			
1264538709E			b			
214365			B			

a = 1s.2.5.8s.10s.17.18s.20s (20)
b = 2.13s.15s.19

477. 5019 Robin E H Woolley

(No 13)

2314567890E 5 6 19

41625378E90 a
613245 - s
413265 14s

3124 - 2 |
2134 - s |
3142 - 2 | A
4123 - 2 |
2143 - s |

2143657809E 2.15s
3124 A
31246587E90 2.13s.15s
4132 A
4132658709E 2.15s
2143 A

---

a = 1.4s.9s.16s.17.19

478. 5050 Robin E H Woolley

2314567890E	6	10	19	
13579E24680		a		
21435678E90		b		
412653	-		-	
413256			-	A
3124	-		2	A
2134	-		s	A
3142	-		2	A
4123	-		2	A
2146538709E		c		
214356		A		
21365487E90		d		
213456		A		
3126547809E		c		
314256			-	
4123	-		2	
2143	-		s	
4132	-		2	
314652	-		-	
3124567890E		s	-	

a = s2.5.s8.s11.14.16.17.20 (20)
b = 2.4.s6.s8.10.13.15.18.s22 (30)
c = 2.6.s13.s15.19
d = 1.s6.s9.s13.18.22

479. 5271 Robin E H Woolley

(No 77b)

2314567890E	6	7	18	19	
21435678E90			a		
4321		-		-	-
3421			s		
2134		-		-	-
123654		-	-		-
2136			s		A
123456		-	-		-
3412		-		-	-
4312			s		
1243		-		-	-
124365				b	
2143				A	
21436587				c	
1243				A	
1243658709E				d	
2143				A	

a = 1s.2.6s.8.10.12s.14s.16.18s.20s (20)
b = 3s.8s.10s.11.12.20.21
c = 2s.13s.15s
d = 2.15s

For 5007, call 7s for middle three courses of any A

480. 8319 Robin E H Woolley
(No 36b)

2314567890E	1	7	9	18	
34215678E90	-	s		-	
4132		s		-	
1243		s		-	
2134		s	s	-	
1423		s		-	
4312		s		-	
3241		s		-	
3241567809E		a			
2134		s		-	A
1423		s		-	
4312		s		-	
3421		s	s	-	
4132		s		-	
1243		s		-	
2314		s		-	
24315687E90		b			
4213		A			
4213568709E		a			
2431		A			
24316578E90		c			
4213		A			
4213657809E		a			
2431		A			
21436587E90		b			
1234		A			
1234658709E		a			
2143		A			

a = 1.13s.22
b = 1.13s.15s.18.22
c = 2s.3.7.8.10s.12.13.15.16.21s