

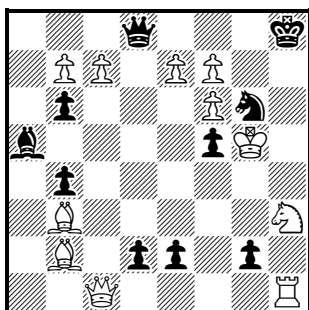
Chapter 4 White and Black Blends

Promotions

4.1 At the cost of a bad key **99** adds three Black promotions to the matrix of **39** with its ten White promotions to show a record total of 13 promotions by both sides, all to Q.

99) A. Dobrila (after K. H. Hannemann)

The Problemist, 1989



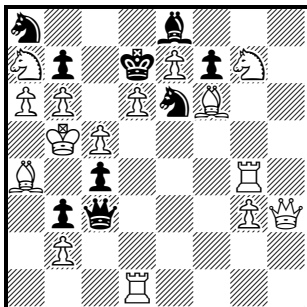
#2

Combined Maxima

4.2 The combination of theoretical maxima for White mates and Black variations engaged the attention of the earliest taskmasters, and their efforts were refined by their successors. Six double tasks have been achieved. **100** shows WK6+BS8; **101** shows WK6+BP4 with a light setting and sacrificial key, other examples being **106†** and **138**; **102†** is a well-made unique achievement of WS8+BS8; **103** shows WS8+BP4 with a passable key; **104** shows WP4+BS8; and **105** shows WP4+BP4 with a threat, another example of the task being **106†**.

- | | |
|-------------------|--------------------|
| 1.Kxg6 | (>2.either Pxd8=Q) |
| 1...Q any on rank | 2.PxQ=Q |
| 1...Qd7, Qd6 | 2.Pf8=Q |
| 1...Qd5 | 2.Pe8=Q |
| 1...Pb5 | 2.ePxd8=Q |
| 1...Pe1=Q | 2.cPxd8=Q |
| 1...Pd1=Q | 2.Qh6 |
| 1...Pg1=Q+ | 2.Sxg1 |
| 1...Qxe7 | 2.Pxe7 |

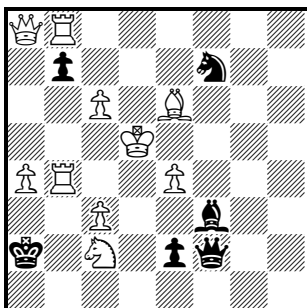
100) N. Petrović & V. Vuković

Šahovski Glasnik, 1927

#2

- | | |
|-------------------|---------------|
| 1.Rd5 | block |
| 1...Qa5+ | 2.Kxa5 |
| 1...Qb4+ | 2.Kxb4 |
| 1...Qd2, Qe1 | 2.Kxc4 |
| 1...Pxa6+ | 2.Kxa6 |
| 1...Sxb6 | 2.Kxb6 |
| 1...Sxc5 | 2.Kxc5 |
| 1...eSc7+ , aSc7+ | 2.dPxc7 |
| 1...Sd8 | 2.Pxd8=Q |
| 1...Sf8 | 2.Pxf8=S |
| 1...Sxg7 | 2.Rxg7 |
| 1...eS else | 2.gRxS |

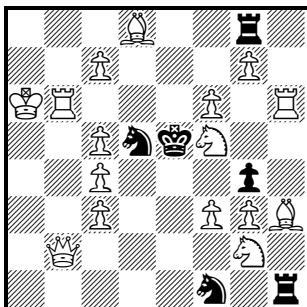
101) S. Walters

The Problemist, 1939

#2

- | | |
|-----------|---------------|
| 1.Qa6 | (>2.Qc4) |
| 1...Qc5+ | 2.Kxc5 |
| 1...Qd4+ | 2.Kxd4 |
| 1...Bxe4+ | 2.Kxe4 |
| 1...Se5 | 2.Kxe5 |
| 1...Sd6 | 2.Kxd6 |
| 1...Pxc6+ | 2.Kxc6 |
| 1...Pxa6 | 2.Rb2 |
| 1...Pb6 | 2.Qc4 |
| 1...Pb5 | 2.Pxb5 |

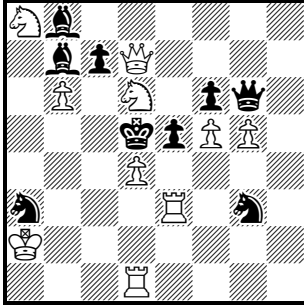
102†) N. Petrović

Special Prize, *Chess*, 1946

#2

- | | | | |
|----------------|----------------|------------------|---------------|
| 1.Rh5 | (>2.fS~) | 1...Sxb6 | 2.Sd4 |
| 1...Pxf3 | 2.Sd6 | 1...Se7 | 2.Sxe7 |
| 1...Rxg7 | 2.Sxg7 | 1...Sxc3 | 2.Qxc3 |
| 1...Rh8 | 2.Sh6 | 1...Sb4+ | 2.Pxb4 |
| 1...Rxh3 | 2.fSh4 | 1...Sxc7+ | 2.Bxc7 |
| 1...Sxg3 | 2.Sxg3 | 1...Sxf6 | 2.Bxf6 |
| 1...dSe3, fSe3 | 2.fSxe3 | 1...Sf4 | 2.Pxf4 |

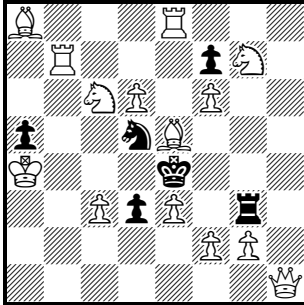
103) J. Hajszeryk
L'Échiquier, 1925



#2

1.Kb3	(>2.dS~)	1...Sxf5,Qxf5	2.Sxf5
1...Sc4	2.Sxc4	1...Se4	2.Sxe4
1...Sb5	2.Sxb5	1...Pxb6	2.Sxb6
1...Pxd4	2.Sxb7	1...Pc5	2.Pxe5
1...Bc8	2.Sxc8	1...Pc6, Bc6	2.Qe6
1...Qe8	2.Sxe8	1...Pxd6	2.Qxb7
1...Qf7,Qh7,Qg7	2.S(x)f7	1...Pgx5	2.Rxe5

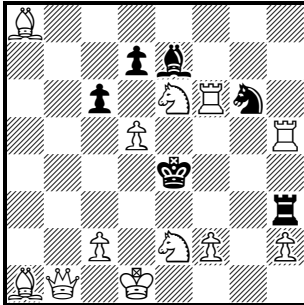
104) J. Hartong
Chemnitzer Tageblatt, 1927



#2

1.Sb4	block	1...Sc7	2.Rxc7
1...Rf3	2.Pxf3	1...Se7	2.bRxe7
1...Rg4	2.Pg3	1...Sxf6	2.Bxf6
1...Rgx7	2.Pg4	1...Sf4	2.Bxf4
1...Rh3	2.Pxh3	1...Sxe3	2.Bgx3
1...Sxc3+	2.Bxc3	1...Pd2	2.Qb1
1...Sxb4, Pxb4	2.Rxb4	1...Rxe3	2.Qh7
1...Sb6+	2.Rxb6	1...Rgx2	2.Qxg2

105) J. Hartong
Scaecvaeria, 1961



#2

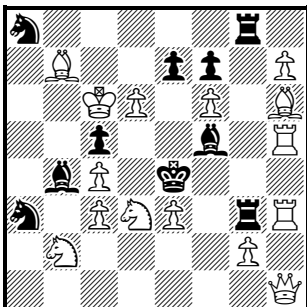
1.Pxc6	(>2.Pxd7)	1...Pd5	2.Sg5
1...Rb3	2.Pxb3	1...Pd6	2.Qb4
1...Ra3	2.Pc3	1...Pxe6	2.Pc7
1...Rxb5	2.Pc4	1...Rc3	2.Sxc3
1...Rd3+	2.Pxd3	1...Se5	2.Rxe5
1...Pxc6	2.Bxc6	1...Sf4	2.Rxf4

4.3 The only orthodox triple task of this sort ever achieved is **106†**, which shows (with a bad key and major dual) WK6+WP4+BP4. **107(B)** purports to show WK6+BP4+BP4 and

108(B) to show WP4+WP4+BP4, but both only do so by interpreting the en passant capture in a way that flouts the general convention in 1.32, and the latter with the worst possible key.

106†) N. Petrović

Die Schwalbe, 1930

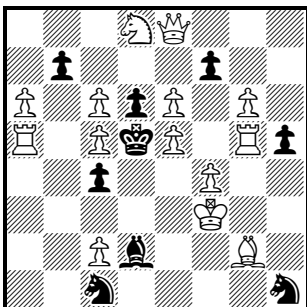


#2

1.Pxg8=S	block	1...Pxf6	2.Sxf6
1...bB any	2.Kxc5	1...Pe5	2.Sf2
1...3S any	2.K(x)b5	1...Rf3	2.Pxf3
1...Sb6	2.Kxb6	1...Rg4	2.Pg3
1...Sc7	2.Kxc7	1...Rg5	2.Pg4
1...Pxd6	2.Kxd6	1...Rxb3	2.Pxb3
1...Pe6 , Bd7+	2.K(x)d7	1...Rxe3	2.Rxe3
		1...Rxd2	2.Qxd2

107[B] A. Dobrila

Problem, 1979

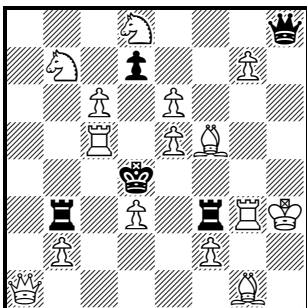


#2

1.Pc3	block	1...Pb6	2.Pxb6
1...Sf2	2.Kxf2	1...Pb5	2.Pxb5 e.p.
1...cS any	2.K(x)e2	1...Pxc6	2.Qxc6
1...Bxf4	2.Kxf4	1...Pxe6	2.Qxe6
1...B else	2.K(x)e3	1...Pf6	2.Pxf6
1...Ph4	2.Kg4	1...Pf5	2.Pxf5 e.p.
1...Sg3	2.Kxg3	1...Pxd6	2.ePxd6
1...Pxa6	2.cPxd6	1...Pxc5	2.Qd7

108[B] N. Petrović

Šahovski Vjesnik, 1947



#2

1.Pxh8=Q	block	1...Rxd3	2.Pxd3
1...Ra3	2.Pxa3	1...Pxc6	2.Sxc6
1...Rb4	2.Pb3	1...Pd5	2.Pxd5 e.p.
1...Rxb7	2.Pb4	1...Pd6	2.Pxd6
1...Rc3	2.Pxc3	1...Pxe6	2.Sxe6
1...Re3	2.Pxe3	1...Rxb2	2.Qxb2
1...Rf4	2.Pf3	1...bRxd3	2.Qa4
1...Rxf5	2.Pf4	1...fRxd3	2.Qh4

Blends

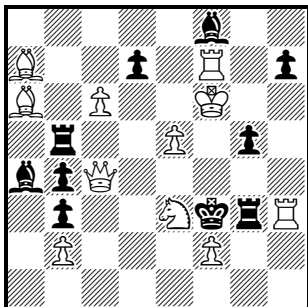
4.4 Table III lists the records for the maximum combinations of White mates and Black variations by the thirty-six possible pairs of pieces. Twelve of the problems have already been quoted. The twenty-four additional problems **109*-32** come from a wider variety of periods and countries than for Tables I and II. **104**'s blend has also been shown with promoting WP. **109*** is a polished early first-prizewinner showing the attractive task of WK6+BK2, with Black checks and BK flight provided for in the set position, a key which gives a second flight while taking care of random moves of the free BR, and no duals. Of the other combinations involving the BK, **112** is a duel (see the next paragraph) with checking key; **117** has an obvious key but the subsequent display of 16 mates with 2 flight squares (another record) is beautifully accurate; the anonymous **122** shows good White economy; and **127** manages its four flights with a light touch and no duals. **111**, which is also dual-free, is distinguished from other examples of the same task by having all seven BB moves on one diagonal. **118†** is remarkably elegant for such a massive achievement. **131*** has a passable key leading to a fine set of diverse BR variations: its aggregate is matched by **64**'s 2+12, from which **110** is derived. The remainder do not call for individual comment, except to note that **129** starts with the WK in check.

TABLE III WHITE AND BLACK BLENDS

	WK	WQ	WR	WB	WS	WP
BK	109* 6 + 2	112 6 + 6	117 14 + 2	122 13 + 3	127 8 + 4	59 4 + 7
BQ	62 4 + 15	113 8 + 14	118† 14 + 12	123 11 + 11	128 8 + 13	62 2 + 15
BR	110 4 + 12	9* 12 + 5	74 13 + 9	124 12 + 10	129 8 + 8	131* 4 + 10
BB	111 6 + 7	114 12 + 4	119 14 + 5	125 13 + 6	130 8 + 7	132 2 + 9
BS	100 6 + 8	115 12 + 3	120 14 + 6	13 13 + 4	102† 8 + 8	104 4 + 8
BP	101 6 + 4	116 12 + 3	121 14 + 3	126 13 + 3	103 8 + 4	105 4 + 4

109*) G. Hume

1st Prize *ex aequo*, *Boys' Newspaper*, 1881

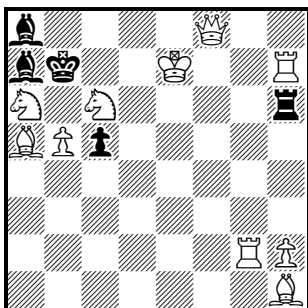


#2

- | | | | |
|--------------------------|-------|-----------------|---------------|
| 1.Qd3 | block | | |
| 1...Rxe5 | | 2.Kxe5 | |
| 1...Rxb3, Pg4 | | 2.Kxb3 | 2.Kxe5 |
| 1...dP any | | 2.Ke6 | |
| 1...Be7+, Bh6 | | 2.K(x)e7 | |
| 1...fB else | | 2.K(x)g7 | |
| 1...hP any | | 2.Kg6 | |
| 1...Kxf2 | | 2.Qf1 | |
| 1...Kf4 , bR else | | 2.Qf5 | |

110) C. J. Morse

The Problemist, 2008

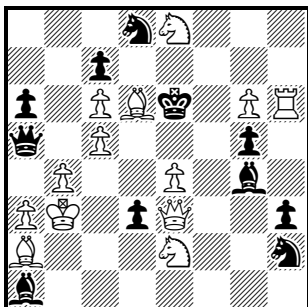


#2

- | | | | |
|-----------------|---------------|------------------|----------|
| 1.cSb4 | (>2.Rg6) | 1...Rh4 | 2.Rg4 |
| 1...Re6+ | 2.Kxe6 | 1...Rh5 | 2.Rg5 |
| 1...Rd6 | 2.Kxd6 | 1...Rxa6 | 2.Pxa6 |
| 1...Rb6 | 2.Kd8 | 1...Rc6 | 2.Pxc6 |
| 1...Rf6 | 2.Kxf6 | 1...Rg6 | 2.Rxg6 |
| 1...Rxb2 | 2.gRxh2 | 1...Rxb7+ | 2.Rg7 |
| 1...Rh3 | 2.Rg3 | 1...7B any | 2.Q(x)b8 |

111) C. L. Fitch & O. Wurzburg

Pittsburgh Gazette Times, 1912

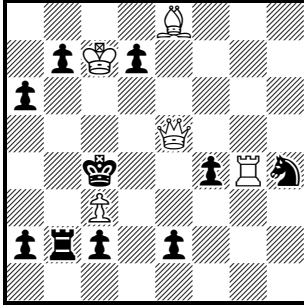


#2

- | | | | |
|----------------|-----------------|----------------|----------|
| 1.Qf4 | block | 1...Bf6 | 2.Qxf6 |
| 1...Qxa3+ | 2.Kxa3 | 1...Bg7 | 2.Sxg7 |
| 1...Qa4+, Qb6 | 2.K(x)a4 | 1...Bh8 | 2.Pg7 |
| 1...Qxb4+ | 2.Kxb4 | 1...Q else | 2.Sxc7 |
| 1...dP any | 2.Kc2 | 1...Pxd6 | 2.Qxd6 |
| 1...Bc3 | 2.Kxc3 | 1...dS any | 2.Q(x)f7 |
| 1...Bb2 | 2.Kxb2 | 1...hS any | 2.Qxg4 |
| 1...Bd4 | 2.Sxd4 | 1...gB any | 2.Q(x)f5 |
| 1...Be5 | 2.Qxe5 | 1...Pxf4 | 2.Sxf4 |

112) A. E. Zarur

3rd Prize, *Problem*, 1970



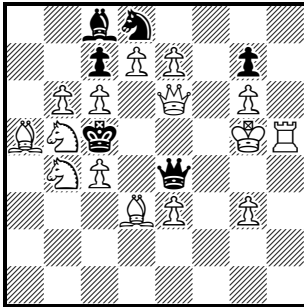
#2

1.Qxf4+

- | | |
|----------|-------|
| 1...Kb5 | 2.Qe5 |
| 1...Kc5 | 2.Qc4 |
| 1...Kd5 | 2.Qd6 |
| 1...Kd3 | 2.Qd4 |
| 1...Kxc3 | 2.Qe3 |
| 1...Kb3 | 2.Qb4 |

113) A. Dobrila

Problem, 1967



#2

1.Pxd8=S

- 1...Pxb6
 1...Qxe3+
 1...Qe5+
 1...Qf5+
 1...Qd5+
 1...Qxc4
 1...Qxc6
 1...Qf3, Qg2, Qh1

block

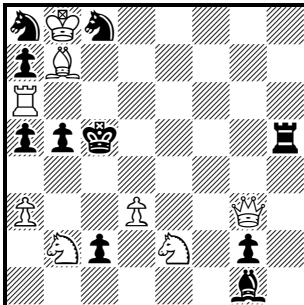
- 2.Qd6
 2.Qxe3
 2.Qxe5
 2.Qxf5
 2.Qxd5
 2.Qxc4
 2.Qxc6
 2.Qe7

- 1...Qf4+
 1...Qxg6+
 1...Qh4+
 1...Qg4+
 1...Qxd3
 1...Qxe6
 1...Qd4
 1...Ba6
 1...Bb7

- 2.Kxf4
 2.Kxg6
 2.Kxh4
 2.Kxg4
 2.Sxd3
 2.Sxe6
 2.Pxd4
 2.Sxa6
 2.Sxb7

114) J. C. J. Wainwright

Les Tours de Force, 1906



#2

1.Qf4

- 1...Pc1= any
 1...Se7, Sd6
 1...Re5
 1...Rf5
 1...Rg5
 1...Pa4

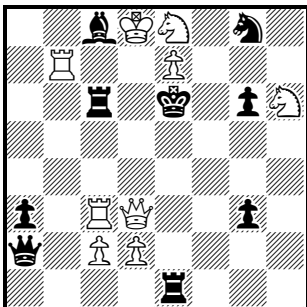
block

- 2.Qxc1
 2.Q(x)d6
 2.Qxe5
 2.Qxf5
 2.Qxg5
 2.Qb4

- 1...Pb4
 1...cSb6
 1...aS any
 1...Bf2
 1...Be3
 1...Bd4
 1...Bh2
 1...Rd5

- 2.Qc4
 2.Qf8
 2.Q(x)c7
 2.Qxf2
 2.Qxe3
 2.Qxd4
 2.Pd4
 2.Rc6

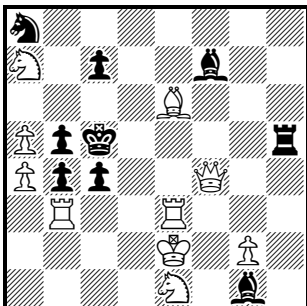
115) J. C. J. Wainwright

Les Tours de Force, 1906 (V)

#2

1.Rc5	block	1...Qb3	2.Qxb3
1...Qd5+, Qxc2	2.Q(x)d5	1...Qc4	2.Qxc4
1...Rd6+, Rc7, Rxc5	2.Q(x)d6	1...Pg2	2.Qh3
1...B any	2.Q(x)d7	1...Pg5	2.Qf5
1...Re2	2.Qxe2	1...Sxh6	2.Qxg6
1...Re3	2.Qxe3	1...Sxe7	2.Rxe7
1...Re4	2.Qxe4	1...Sf6	2.Sg7
1...Ra6	2.Qxa6	1...Rb6	2.Rxb6
		1...Re5	2.Rxc6

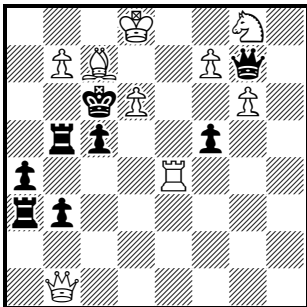
116) A. Dobrila

3rd Prize *ex aequo*, *Problem*, 1967

#2

1.eRd3	block	1...Bd4	2.Qxd4
1...Re5+	2.Qxe5	1...Be3	2.Qxe3
1...Pxa4	2.Qxc4	1...Bf2	2.Qxf2
1...Bxe6, Bg6, Be8, Bg8	2.Qf8	1...Sb6	2.Qxc7
1...Rf5	2.Qxf5	1...Pxb3	2.Qc1
1...Rg5	2.Qxg5	1...Pc3	2.Qxb4
1...Pc6	2.Qd6	1...Pxd3+	2.Sxd3
		1...Rd5	2.Rxd5

117) A. C. Challenger

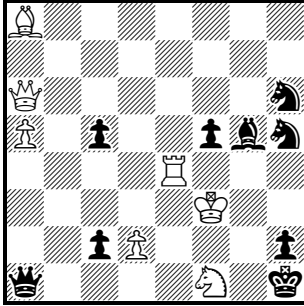
Morning Post, 1896

#2

1.Qh1	(>2.R-)	1...Qf6+	2.Re7
1...Qa1, Ra1	2.Re1	1...Qxf7	2.Re6
1...Qb2, Ra2	2.Re2	1...Qe5	2.Rxe5
1...Pb2, Qc3	2.Re3	1...Pf4	2.Rxf4
1...bR any	2.R(x)b4	1...Qxg6	2.Rg4
1...Pc4	2.Rxc4	1...Q else	2.Rh4
1...Qd4	2.Rxd4	1...Kxb7	2.Rxa4
1...Qf8+, Qxg8+	2.Re8	1...Kd5	2.Se7
		1...Pxe4	2.Qxe4

118+) A. Dobrila

1st Hon. Ment. *ex aequo*, Problem, 1967

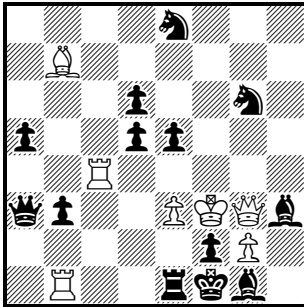


#2

- | | | | |
|----------|---------|--------------------|----------|
| 1.Kf2 | (>2.R~) | 1...Qa2 | 2.Rc4 |
| 1...Pf4 | 2.Rxf4 | 1...Qb1, Qb2 | 2.Rb4 |
| 1...Sg4+ | 2.Rxg4 | 1...Qa4 | 2.Rxa4 |
| 1...Bh4+ | 2.Rxh4 | 1...Qa3, Qc3, Be3+ | 2.R(x)e3 |
| 1...Qe5 | 2.Rxe5 | 1...Qd1 | 2.Re2 |
| 1...Qf6 | 2.Re6 | 1...Qe1+ | 2.Rxe1 |
| 1...Qg7 | 2.Re7 | 1...Qxf1+ | 2.Qxf1 |
| 1...Qh8 | 2.Re8 | 1...Sf6, Sg3 | 2.S(x)g3 |
| 1...Qd4+ | 2.Rxd4 | 1...Pxe4 | 2.Bxe4 |

119) V. Bartolović

4th Hon. Ment. *ex aequo*, Problem, 1967

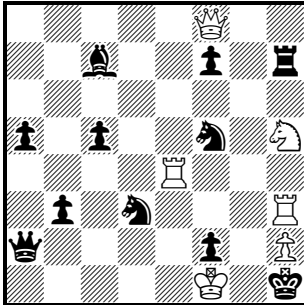


#2

- | | | | |
|--------------------|-----------|---------------|----------|
| 1.Ba6 | (>2.cR~) | 1...Sf4 | 2.Rxf4 |
| 1...Rc1, Qc1, Rxb1 | 2.cR(x)c1 | 1...Pd4 | 2.Rxd4 |
| 1...Qb2, Qa2 | 2.Rc2 | 1...Bc8 | 2.Rxc8 |
| 1...Pb2 | 2.Rc3 | 1...Bd7 | 2.Rc6 |
| 1...Qa4 | 2.Rxa4 | 1...Bg4+ | 2.Rxg4 |
| 1...Qb4 | 2.Rxb4 | 1...Bf5, Pe4+ | 2.R(x)e4 |
| 1...Sc7 | 2.Rxc7 | 1...Bxg2+ | 2.Qxg2 |
| 1...Qc5 | 2.Rxc5 | 1...Bh2 | 2.Qxf2 |
| 1...Sh4+ | 2.Rxh4 | 1...Rd1 | 2.Rxd1 |
| | | 1...Pxc4 | 2.Bxc4 |

120) V. Bartolović

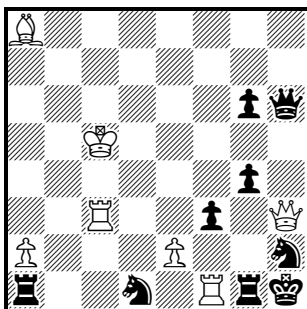
1st Hon. Ment. *ex aequo*, Problem, 1967



#2

- | | | | |
|---------------------|----------|----------|---------|
| 1.Qa8 | (>2.eR~) | 1...Se5 | 2.Rxe5 |
| 1...Qa1+, Qb1+, Se1 | 2.R(x)e1 | 1...Sf4 | 2.Rxf4 |
| 1...Qe2+ | 2.Rxe2 | 1...Pb2 | 2.Rc4 |
| 1...Qa4 | 2.Rxa4 | 1...Se3+ | 2.eRxe3 |
| 1...Rh6 | 2.Re6 | 1...Sd4 | 2.Rxd4 |
| 1...Rg7 | 2.Rg4 | 1...Se7 | 2.Rxe7 |
| 1...Rh8 | 2.Re8 | 1...Sh4 | 2.eRhx4 |
| 1...Sb4 | 2.Rxb4 | 1...Sd6 | 2.Sg3 |
| | | 1...Sg3+ | 2.Pxg3 |

121) A. Dobrila

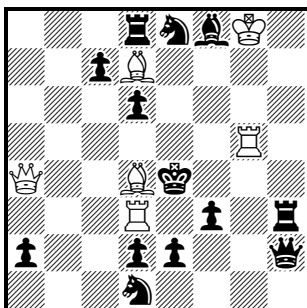
5th Hon. Ment. *ex aequo*, Problem, 1967

#2

1.cRx3	(>2.3R~)	1...Rb1	2.Rb3
1...Qc1+,Rc1+,Sc3	2.R(x)c3	1...Rxa2	2.Ra3
1...Qd2	2.Rd3	1...Rxf1	2.Rxf1
1...Qe3+,Se3	2.Rxe3	1...Sf2	2.3Rxf2
1...Qf4	2.Rxf4	1...Pg5	2.Rf6
		1...Pxh3,	2.Rxh3
		Qxh3	
1...Qg5+,Qh5+	2.Rf5	1...Pg3	2.Rxg3
1...Qf8+,Qh8	2.R(x)f8	1...Pxf3	2.Bxf3
1...Qh7,Qg7	2.Rf7		

122) Anonymous

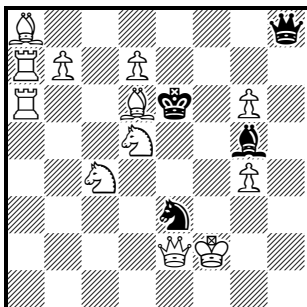
Reading Observer Tourney, 1905



#2

1.Rd5	(>2.4B~)	1...Sc3	2.Bxc3
1...Qg1+	2.Bxg1	1...Se3	2.Bxe3
1...Qg2+,Qg3+,Rg3+	2.Bg7	1...Sf6+	2.Bxf6
1...Qe5	2.Bxe5	1...Pa1=Q	2.Bxa1
1...Ra8	2.Ba7	1...Pc5	2.Bxc5
1...Rb8	2.Bb6	1...Kf4	2.Bf2
1...Rh8+	2.Bxh8	1...Kxd5	2.Qc6
1...Sb2	2.Bxb2	1...Kxd3	2.Bf5

123) C. J. Morse

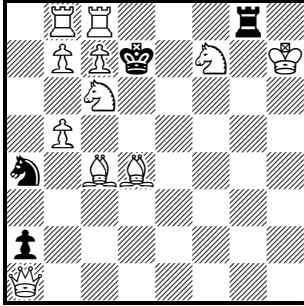
5th Prize *ex aequo*, Problem, 1967

#2

1.Pb8=S	(>2.dB~)	1...Qd4	2.Bc5
1...Be7	2.Bxe7	1...Qe5	2.Bxe5
1...Qh2+	2.Bxh2	1...Qf6+	2.Bf4
1...Qh4+,Bh4+	2.Bg3	1...Qxb8	2.Bxb8
1...Qa1	2.Ba3	1...Qd8,Bd8	2.Bc7
1...Qb2	2.Bb4	1...Qf8+	2.Bxf8
		1...Qc8	2.Pxc8=Q

124) C. J. Morse

Problem Observer, 1987

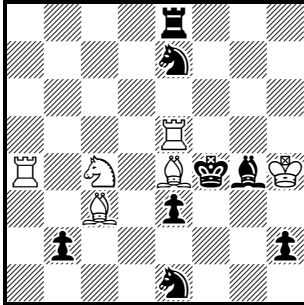


#2

1.Qd1	(>2.dB~)	1...Rg3	2.Be3
1...Sb6	2.Bxb6	1...Rg5	2.Be5
1...Sc5	2.Bxc5	1...Rg6	2.Bf6
1...Sc3	2.Bxc3	1...Rg7+	2.Bxg7
1...Sb2	2.Bxb2	1...Rh8+	2.Bxh8
1...Pa1=Q	2.Bxa1	1...Rg4	2.Qxg4
1...Rg1	2.Bxg1	1...Rd8	2.Pxd8=Q
1...Rg2	2.Bf2	1...Rxc8	2.Pxc8=Q

125) C. J. Morse

Problem, 1967

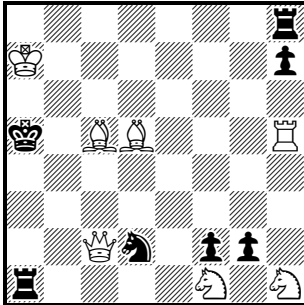


#2

1.Sd2	(>2.eB~)	1...Ra8	2.Bxa8
1...Bd1,Sc2	2.B(x)c2	1...Rb8	2.Bb7
1...Be2,Sd3	2.B(x)d3	1...Rh8+	2.Bh7
1...Bf3,Sf3+	2.Bxf3	1...Sg6+	2.Bxg6
1...Bd7,Rc8,Sc6	2.B(x)c6	1...Sg2+	2.Bxg2
1...Be6,Rd8,Sd5	2.B(x)d5	1...Pb1=Q	2.Bxb1
1...Bf5, Sf5+	2.Bxf5	1...Ph1=Q+	2.Bxh1

126) A. Dobrila (version by E. Ferrón)

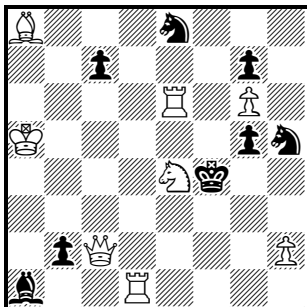
5th Hon. Ment. *ex aequo*, *Problem*, 1967



#2

1.Bd6	(>2.5B~)	1...Ra8+	2.Bxa8
1...Pxf1=Q,Sc4	2.B(x)c4	1...Rb8	2.Bb7
1...Pg1=Q	2.Bg2	1...Rc8	2.Bc6
1...Pxb1=Q	2.Bxb1	1...Re8	2.Be6
1...Kb5+	2.Ba2	1...Rf8	2.Bf7
1...Re1,Se4	2.B(x)e4	1...Rg8	2.Bxg8
1...Rb1,Sb3	2.B(x)b3	1...Sf3	2.Bxf3

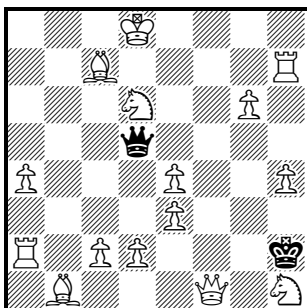
127) W. H. Thompson

Les Tours de Force, 1906

#2

- | | | |
|---------------------|-----------------|--|
| 1.Rd4 | (>2.S~) | |
| 1...Sd6 | 2.Sxd6 | |
| 1...eSf6,hSf6 | 2.Sxf6 | |
| 1...Sg3 | 2.Sxg3 | |
| 1...Pb1=Q | 2.Sc3 | |
| 1...Pc6 | 2.Sd2 | |
| 1...Kf5 ,Pc5 | 2.S(x)c5 | |
| 1...Kg4 | 2.Sf2 | |
| 1...Kf3 | 2.Sxg5 | |
| 1...Ke3 ,Pg4 | 2.Qf2 | |

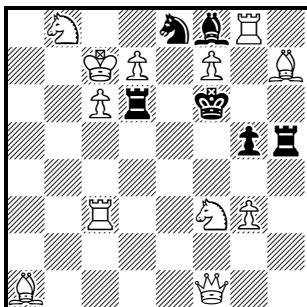
128) C. J. Morse (after A. Bottachi)

Problem, 1967 (V)

#2

- | | | | |
|-----------------|---------------|-------------------------|-----------------|
| 1.Pd3 | (>2.Pc4) | 1...Qh5 ,Qf5 | 2.S(x)f5 |
| 1...Qc4 | 2.Sxc4 | 1...Qxe4 | 2.Sxe4 |
| 1...Qb5 | 2.Sxb5 | 1...Qe6 | 2.Pc4 |
| 1...Qa8+ | 2.Sc8 | 1...Qa5 ,Qd4,Qe5 | 2.Pc3 |
| 1...Qb7 | 2.Sxb7 | 1...Qxd3 | 2.Pxd3 |
| 1...Qg8+ | 2.Se8 | 1...Qg5+ | 2.Pxg5 |
| 1...Qf7 | 2.Sxf7 | 1...Qxd6+ | 2.Bxd6 |

129) V. Bartolović

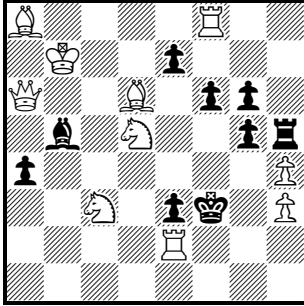
Problem, 1967 (V)

#2

- | | | | |
|----------------|---------------|------------------|---------------|
| 1.fPx8=Q | (>2.fS~) | 1...Rd4 | 2.Sxd4 |
| 1...Pg4 | 2.Sg5 | 1...Rd5 | 2.Se5 |
| 1...Rh4 | 2.Sxh4 | 1...Rd3 | 2.Rxd3 |
| 1...Rh2 | 2.Sxh2 | 1...Rxc6+ | 2.Rxc6 |
| 1...Rh1 | 2.Sg1 | 1...Rxd7+ | 2.Sxd7 |
| 1...Rd1 | 2.Se1 | 1...Re6 | 2.Qxf8 |
| 1...Rd2 | 2.Sxd2 | 1...Be7 | 2.Qg6 |

130) V. Bartolović

2nd Prize *ex aequo*, Problem, 1967

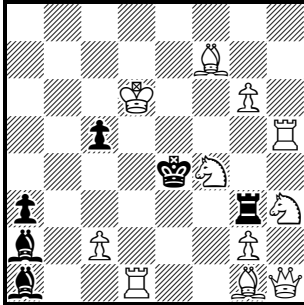


#2

- | | | | |
|----------------|---------------|------------------|---------------|
| 1.Sxf6 | (>2.fS-) | 1...Bc4 | 2.fSd5 |
| 1...Rh8 | 2.Sg8 | 1...Bd7 | 2.Sxd7 |
| 1...Rh7 | 2.Sxh7 | 1...Be8 | 2.Sxe8 |
| 1...5P any | 2.Sxh5 | 1...Bxa6+ | 2.Kxa6 |
| 1...Rxh4 | 2.Sg4 | 1...Bc6+ | 2.Qxc6 |
| 1...Bd3 | 2.fSe4 | 1...Bxe2 | 2.Qxe2 |
| | | 1...Pxf6 | 2.Rxf6 |

131*) C. Goldschmeding

2nd Prize *ex aequo*, Problem, 1967

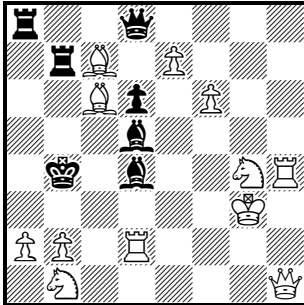


#2

- | | | | |
|------------------|---------------|---------------------|---------------|
| 1.Se2 | (>2.Sxg3) | 1...Rf3 | 2.Pxf3 |
| 1...Rf3 | 2.Pg3 | 1...Rg4 | 2.Pg4 |
| 1...Rg5 | 2.Pxh3 | 1...Rxh3 | 2.Bxg6 |
| 1...Rxg6+ | 2.Pxd3 | 1...Rd3+ | 2.Qxg2 |
| 1...Rd3+ | 2.Bd5 | 1...Rxg2 | 2.Bd5 |
| 1...Rb3 | 2.R(x)e5 | 1...Rc3,Be5+ | 2.Sf2 |
| 1...Re3 | | | |

132) A. Dobrila

Problem, 1967



#2

- | | | | |
|-----------------|----------------|-----------------|---------------|
| 1.Qxd5 | (>2.Rxd4,Qxd4) | 1...Be5+ | 2.Sxe5 |
| 1...Bxb2 | 2.Rxb2 | 1...Bf2+ | 2.Sxf2 |
| 1...Ba7 | 2.Pa3 | 1...Be3 | 2.Sxe3 |
| 1...Bb6 | 2.Qb5 | 1...Bc3 | 2.Pxc3 |
| 1...Bc5 | 2.Qb3 | 1...Ra3+ | 2.Pxa3 |
| 1...Bxf6 | 2.Sxf6 | 1...Rxa2,Qxc7 | 2.Rxd4 |

Duels

4.5 It is natural to go on to ask how many mates by each White piece can follow moves of each Black piece. The records for these duels, as they are called, are listed in Table IV. They are generally of greater aesthetic interest than the aggregated combinations of unconnected elements in Table III. Eight of the problems have already been quoted, the twenty-eight additional ones being **133-160**.

TABLE IV DUELS

	WK	WQ	WR	WB	WS	WP
BK	133	112	143	148	152	157
	3	6	4	5	5	4
BQ	134	139	91	123	17*	158
	6	8	11	10	8	4
BR	135	140*	144	149	153	18
	5	6	10	8	7	4
BB	136*	141	145	150	154	44*
	4	6	7	7	6	4
BS	137*	142*	146	70	155	159
	4	7	6	6	5	4
BP	138	72*	147	151	156	160
	3	4	4	3	4	3

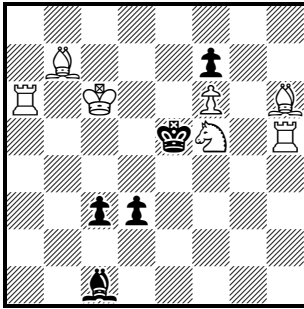
4.6 The records for duels involving the WK are especially interesting. **133**, which necessarily has (like **112** and **148**) a checking key, matches a record first set by Alain White in 1906, but with the added embellishment of two thematic set mates after Ke4 and K x f6, both of which are changed after the key. **134** shows a maximum duel, as does **17***; and these are the only two, since the records involving WP and BP could theoretically be improved to 6 with the pawns promoting. The elegant **135** falls one short of the theoretical maximum, as do also **142*** and **153**. **136*** with its thematic key was composed in response to a challenge by Comins Mansfield to show four discovered checks by a BB leading to different WK mates. **137*** shows a similar task for the BS with the flamboyant artistry typical of its composer, having a flight-square, both set checks provided for, a thematic key which changes the mate after one of them and allows four more, and no duals. The duel in **138** is part of a complete double task WK6+BP4: it has also been shown with promoting pawn,

and the same is true of the duels shown in **18**, **151**, **158**, **159** and **160**.

4.7 The rest can be covered more briefly. **139** and **149** make the most of two familiar duels, BQvWQ and BRvWB. **140*** is beautifully economical. In **142***, which added a seventh thematic mate to Servais' matrix, the eBS has a random move (Sg4, with the set mate changed) and six corrections. **143**, like **72***, **150** (a lighter rendering of its duel than **87** and **181**) and **151**, uses only seven men. The 11-fold duel in **91** is matched in **118†** and the dual-free **179**. Finally, a number of these problems have quite good keys, including that of **152** which gives three flights.

133) M. R. Vukceвич (after A. C. White)

1st Hon. Ment., *Problem*, 1970

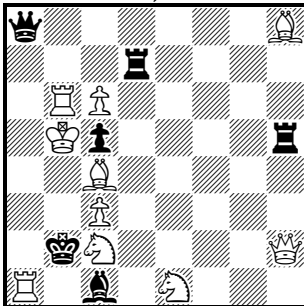


- | | |
|----------|-------|
| 1...Ke4 | 2.Kd6 |
| 1...Kxf6 | 2.Kd5 |
| 1.Se3+ | |
| 1...Ke4 | 2.Kc5 |
| 1...Kxf6 | 2.Kd7 |
| 1...Ke6 | 2.Kc7 |
| 1...Kd4 | 2.Ra4 |

#2

134) C. J. Morse

The Tablet, 1965

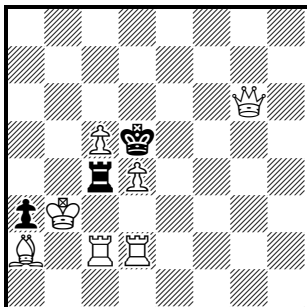


- | | |
|--------------------------|-------------------|
| 1.Bd5 | (>2.Kxc5,Kc4,Sd3) |
| 1...Qxa1 | 2.Kxc5 |
| 1...Qxh8 | 2.Kc4 |
| 1...Qa6+,Qa5+,Qa4+,Qxc6+ | 2.KxQ |
| 1...Rb7 | 2.Sd3 |

#2

135) N. A. Macleod

The Problemist, 1980

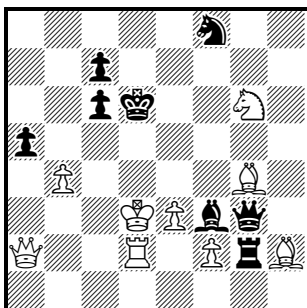


#2

- | | |
|----------|--------|
| 1.Qe8 | block |
| 1...Rxc2 | 2.Kxc2 |
| 1...Rc3+ | 2.Kxc3 |
| 1...Ra4 | 2.Kxa4 |
| 1...Rb4+ | 2.Kxb4 |
| 1...Rxd4 | 2.Kxa3 |
| 1...Rxc5 | 2.Pxc5 |

136*) J. K. Heydon

Good Companions, 1920

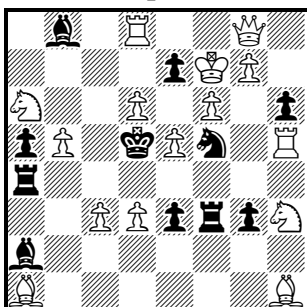


#2

- | | |
|---------------|----------|
| 1.Pe4 | (>2.K~) |
| 1...Bd1+,Pxb4 | 2.Kc4 |
| 1...Be2+ | 2.Kxe2 |
| 1...Bxe4+ | 2.Kxe4 |
| 1...Bxg4+ | 2.Kc2 |
| 1...Pxb4 | 2.Kc4 |
| 1...Rxf2 | 2.Bxg3 |
| 1...Se6, Sxg6 | 2.Q(x)e6 |
| 1...Pc5 | 2.Qd5 |

137*) G. Guidelli

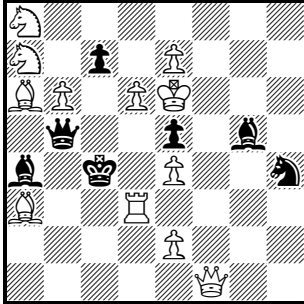
Good Companions, 1918



#2

- | | |
|-----------|----------|
| 1...Sxd6+ | 2.Kxe7 |
| 1.fPxe7 | (>2.Kf6) |
| 1...Sxd6+ | 2.Kg6 |
| 1...Sxe7+ | 2.Kxe7 |
| 1...Sxg7+ | 2.Kxg7 |
| 1...Sh4+ | 2.Ke8 |
| 1...Sd4+ | 2.Sf4 |
| 1...Kxe5+ | 2.Pc4 |

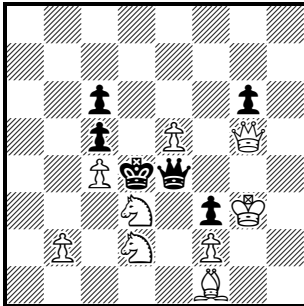
138) E. Ferrón (after W. H. Thompson)
The Problemist, 2006



#2

- | | |
|---------------|----------|
| 1.Qf7 | block |
| 1...Pc6 | 2.Kd7 |
| 1...Pc5, Qxa6 | 2.Kxe5 |
| 1...Pxd6 | 2.Kxd6 |
| 1...Pxb6 | 2.Sxb6 |
| 1...Bxe7 | 2.Kxe7 |
| 1...gB else | 2.K(x)f6 |
| 1...S any | 2.K(x)f5 |
| 1...aB any | 2.Bxb5 |

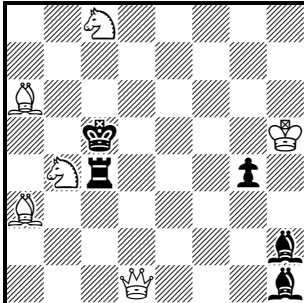
139) B. Lindgren
Eskilstuna Kuriren, 1950



#2

- | | |
|----------------------------|-----------|
| 1.Pe6 | (>2.Qxc5) |
| 1...Qxe6 | 2.Qxc5 |
| 1...Qd5, Qf5 | 2.Qe3 |
| 1...Qe2 | 2.Qd8 |
| 1...Qxd3 | 2.Qf6 |
| 1...Qe5+, Qf4+, Qg4+, Qh4+ | 2.QxQ |

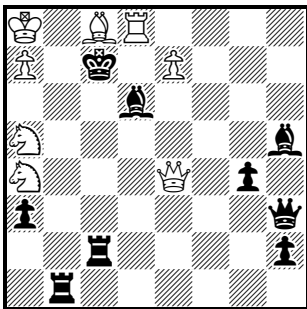
140*) Z. Tanić
2nd Prize, Problem, 1970



#2

- | | |
|--------------|-----------|
| 1.Qd3 | (>2.Qxc4) |
| 1...Rxb4 | 2.Qc4 |
| 1...Rc3 | 2.Qxc3 |
| 1...Rc2, Rc1 | 2.Qe3 |
| 1...Rd4 | 2.Qb5 |
| 1...Re4, Bd5 | 2.Q(x)d5 |
| 1...Rf4 | 2.Qd6 |

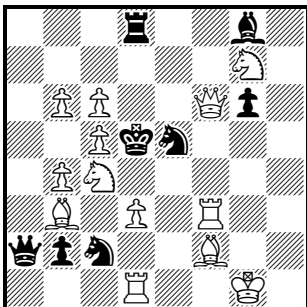
141) C. J. Morse

The Observer, 1966

#2

- | | |
|----------|----------|
| 1.Bf5 | (>2.Rc8) |
| 1...Bb4 | 2.Qb7 |
| 1...Bc5 | 2.Qc6 |
| 1...Bxe7 | 2.Qxe7 |
| 1...Bg3 | 2.Qxc2 |
| 1...Bf4 | 2.Qxf4 |
| 1...Be5 | 2.Qxe5 |
| 1...Rb8+ | 2.Pxb8=Q |

142*) L. Lačný (after A. Servais)

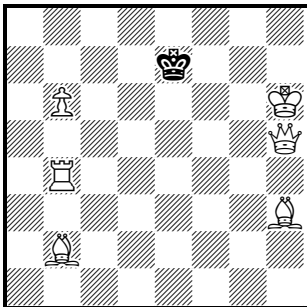
1st Prize, *Problem*, 1970

#2

- | | |
|-----------|----------|
| 1...eS~ | 2.Se3 |
| 1.Pb5 | (2.Qxe5) |
| 1...Sg4 | 2.Qxd8 |
| 1...Sxd3 | 2.Qe5 |
| 1...Sxc4 | 2.Qg5 |
| 1...Sxc6 | 2.Qxc6 |
| 1...Sd7 | 2.Qd6 |
| 1...Sf7 | 2.Qe6 |
| 1...Sxf3+ | 2.Qxf3 |
| 1...Re8 | 2.Qd6 |

143) W. Hoek

16th Place, Netherlands v. Indonesia, 1969

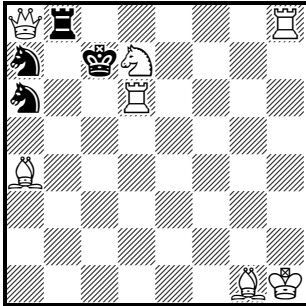


#2

- | | |
|---------|-------|
| 1.Ba3 | block |
| 1...Kd6 | 2.Rc4 |
| 1...Kd8 | 2.Rd4 |
| 1...Kf8 | 2.Rg4 |
| 1...Kf6 | 2.Rf4 |

144) C. J. Morse

Problem Observer, 1993

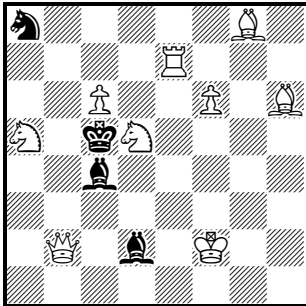


- | | | | |
|----------|----------|--------------|----------|
| 1.Bh2 | (>2.dR~) | 1...Rb6,Rxa8 | 2.R(x)b6 |
| 1...Rb1+ | 2.Rd1 | 1...Rxh8 | 2.Rh6 |
| 1...Rb2 | 2.Rd2 | 1...Rg8 | 2.Rg6 |
| 1...Rb3 | 2.Rd3 | 1...Rf8 | 2.Rf6 |
| 1...Rb4 | 2.Rd4 | 1...Re8 | 2.Re6 |
| 1...Rb5 | 2.Rd5 | 1...7S~ | 2.Q(x)c6 |

#2

145) C. J. Morse

British Chess Magazine, 1987

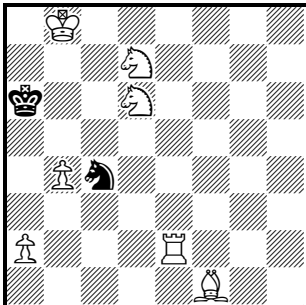


- | | | | |
|-------------|---------|--|--|
| 1.Bf8 | (>2.R~) | | |
| 1...Bxa5 | 2.Rc7 | | |
| 1...Bb4,Bb3 | 2.Rb7 | | |
| 1...Bc3 | 2.Re4 | | |
| 1...Bh6 | 2.Rg7 | | |
| 1...Bf4 | 2.Re5 | | |
| 1...Be3+ | 2.Rxe3 | | |
| 1...Be1+ | 2.Rxe1 | | |

#2

146) H. Hansen

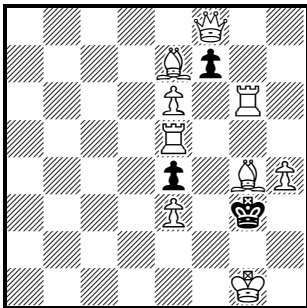
Skakbladet, 1912



- | | | | |
|----------|--------|--|--|
| 1.Pa3 | block | | |
| 1...Sb2 | 2.Rxb2 | | |
| 1...Sxa3 | 2.Ra2 | | |
| 1...Sxd6 | 2.Re6 | | |
| 1...Se5 | 2.Rxe5 | | |
| 1...Se3 | 2.Rxe3 | | |
| 1...Sd2 | 2.Rxd2 | | |
| 1...Sa5 | 2.Pb5 | | |
| 1...Sb6 | 2.Sc5 | | |

#2

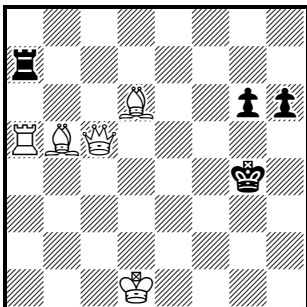
147) C. J. Morse

The Problemist, 1962

#2

1.Qb8 (>2.eR~)
 1...Pxe6 2.eRxe6
 1...Pf6 2.Rh5
 1...Pf5 2.Rxf5
 1...Pxc6 2.Rxe4

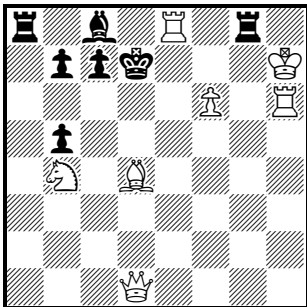
148) Z. Tanić

4th Prize, *Problem*, 1970

#2

1.Qd4+
 1...Kf3 2.Bc6
 1...Kf5 2.Bd7
 1...Kg5 2.Ba6
 1...Kh5 2.Be2
 1...Kh3 2.Bf1

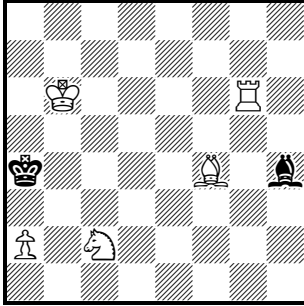
149) C. J. Morse

Problem, 1967

#2

1.Pf7 (>2.B~) 1...Rh8+ 2.Bxh8
 1...Rg1 2.Bxg1 1...Rxe8 2.Bc5
 1...Rg2 2.Bf2 1...Ra6 2.Bb6
 1...Rg3 2.Be3 1...Ra3 2.Bc3
 1...Rg5,Pc5 2.Be5 1...Ra2 2.Bb2
 1...Rg6 2.Bf6 1...Ra1 2.Bxa1
 1...Rg7+ 2.Bxg7 1...Rg4 2.Qxg4

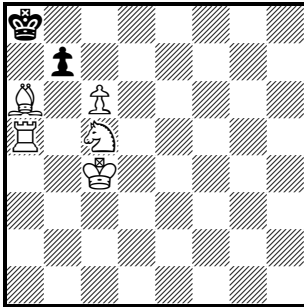
150) E. Ferrón
The Problemist, 2006



- | | |
|----------|---------|
| 1.Rg4 | (>2.B-) |
| 1...Be1 | 2.Bd2 |
| 1...Bf2+ | 2.Be3 |
| 1...Bg3 | 2.Bxg3 |
| 1...Bd8+ | 2.Bc7 |
| 1...Be7 | 2.Bd6 |
| 1...Bf6 | 2.Be5 |
| 1...Bg5 | 2.Bxg5 |

#2

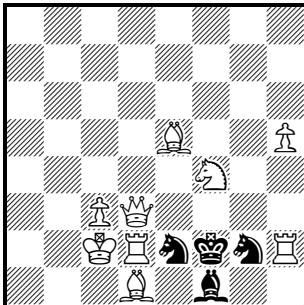
151) F. Janet (after J. F. Keeble)
Pittsburgh Gazette Times, 1916



- | | |
|----------|---------|
| 1.Sd7 | (>2.B-) |
| 1...Pb6 | 2.Bb7 |
| 1...Pb5+ | 2.Bxb5 |
| 1...Pxc6 | 2.Bc8 |
| 1...Pxa6 | 2.Rxa6 |

#2

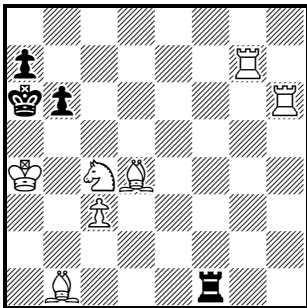
152) C. J. Morse
The Observer, 1961 (V)



- | | |
|---------|--------|
| 1.Qf5 | block |
| 1...Ke1 | 2.Sd3 |
| 1...Ke3 | 2.Sd5 |
| 1...Kf3 | 2.Sxg2 |
| 1...Kg3 | 2.Sxe2 |
| 1...Kg1 | 2.Sh3 |

#2

153) C. J. Morse

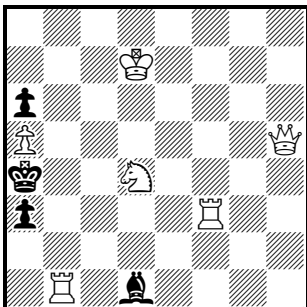
The Problemist, 1960 (V)

#2

1.Bd3 (>2.S~)

1...Ra1+	2.Sa3
1...Rb1	2.Sb2
1...Rd1	2.Sd2
1...Rf7	2.Sa5
1...Rf6	2.Sxb6
1...Rf5	2.Se5
1...Rf3	2.Se3

154) C. J. Morse

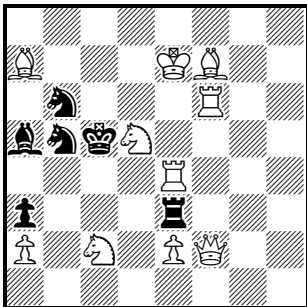
The Tablet, 1962

#2

1.Rf4 (>2.S~)

1...Bb3	2.Sxb3
1...Bc2,Pa2	2.S(x)c2
1...Bxh5	2.Sc6
1...Bg4+	2.Se6
1...Bf3	2.Sxf3
1...Be2	2.Sxe2

155) C. J. Morse

Time and Tide, 1960

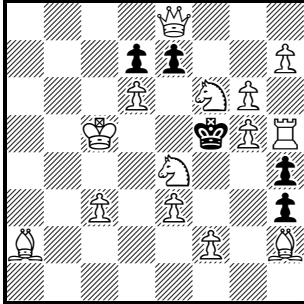
#2

1.Re5 (>2.dS~)

1...Sxa7	2.Sxb6
1...Sc7	2.Sxc7
1...Sd6	2.dSb4
1...Sd4	2.dSxe3
1...Sc3,Bc3	2.Sxc3
1...Kc4	2.Rc6

156) C. J. Morse

The Problemist, 1962

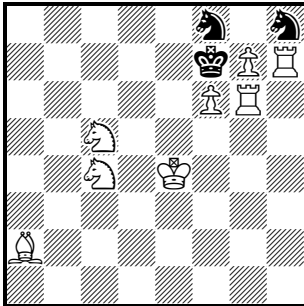


#2

- | | |
|-----------|--------|
| 1.Bb1 | block |
| 1...Pxd6+ | 2.Sxd6 |
| 1...Pe6 | 2.Sd2 |
| 1...Pe5 | 2.Sg3 |
| 1...Pxf6 | 2.Sxf6 |
| 1...Ke6 | 2.Qxd7 |

157) J. Hartong

Probleemblad, 1957

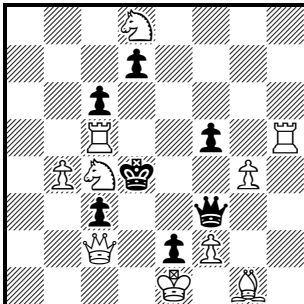


#2

- | | |
|-----------------|----------|
| 1.Sd7 | block |
| 1...Ke6 | 2.Pxf8=S |
| 1...Ke8 | 2.Pxf8=Q |
| 1...Kg8 | 2.Pxh8=Q |
| 1...Kxg6, fS~ | 2.Pg8=Q |
| 1...either Sxg6 | 2.Sd6 |

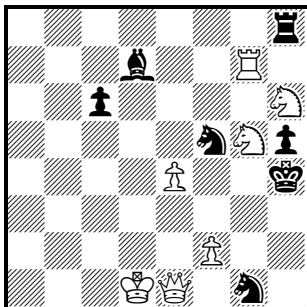
158) J. C. J. Wainwright

1898



#2

- | | | | |
|-----------|--------|------------|----------|
| 1.Sb2 | block | 1...Qe4 | 2.Qxc3 |
| 1...Qe3 | 2.Pxe3 | 1...Q else | 2.Q(x)d3 |
| 1...Qh3 | 2.Pf3 | 1...fP any | 2.Rc4 |
| 1...Qd5 | 2.Pf4 | 1...Pd6 | 2.Se6 |
| 1...Qg3 | 2.Pxg3 | 1...Pd5 | 2.Sxc6 |
| 1...Qxf2+ | 2.Bxf2 | 1...Pxb2 | 2.Qc4 |

159) W. H. Thompson*Les Tours de Force*, 1906

1.Pe5 (>2.Qe4)

1...Se3+ 2.Pxe3

1...Sxh6 2.Pf3

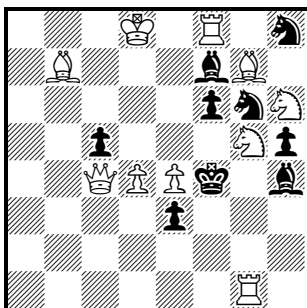
1...Sxg7 2.Pf4

1...Sg3 2.Pxg3

1...Se2 2.Qh1

1...Sh3 2.Sf3

#2

160) C. J. Morse4th Hon. Ment., *The Problemist*, 1969

1.Pe5 (>2.Sh3)

1...Pxe5 2.Pxe5

1...Pf5 2.Pd5

1...Pxg5 2.Pxc5

1...Be6 2.Sxe6

1...Bd5 2.Rxf6

1...Pxd4 2.Qxd4

1...Pe2 2.Qc1

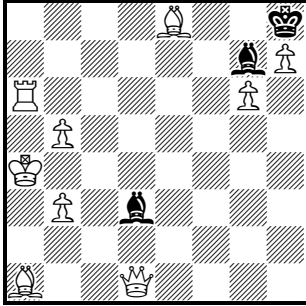
1...Bxg5 2.Qf1

#2

4.8 As to the records for duels between combinations of like pieces, we have already seen two BRs forcing 14 mates by one WR in **12**: the addition of a second WR does not lead to a higher record. **161** shows a 10-fold duel between BBs and WBs; **162** an 8-fold duel between BSs and WSs; **163** an 8-fold duel between BPs and WPs; and **164** a 3-fold duel between three promoting BPs and one promoting WP. With unlike pieces, **149** shows two BRs forcing 12 mates by one WB.

161) A. Dobrila

1st Hon. Ment., *Problem Observer*, 1977

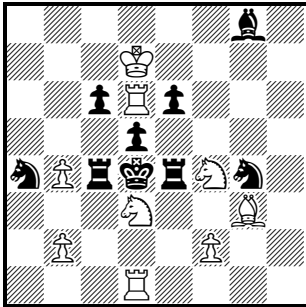


#2

- | | |
|-----------|----------|
| 1.Ra8 | (>2.eB~) |
| 1...Bxb5+ | 2.Bxb5 |
| 1...Bc4 | 2.Bf7 |
| 1...Bxg6 | 2.Bxg6 |
| 1...Bf5 | 2.Bd7 |
| 1...Be4 | 2.Bc6 |
| 1...gB~ | 2.BxB |
| 1...Bxa1 | 2.Qxa1 |

162) C. J. Morse

The Problemist, 1989 (V)

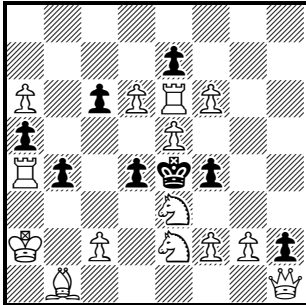


#2

- | | |
|----------|----------------|
| 1.Sxd5 | (>2.either S~) |
| 1...Sb6+ | 2.Sxb6 |
| 1...Sc5+ | 2.Sxc5 |
| 1...Sc3 | 2.Sxc3 |
| 1...Sxb2 | 2.Sxb2 |
| 1...Sxf2 | 2.Sxf2 |
| 1...Se3 | 2.Sxe3 |
| 1...Se5+ | 2.Sxe5 |
| 1...Sf6+ | 2.Sxf6 |
| 1...Rc5 | 2.Se5 |
| 1...Re5 | 2.Sc5 |

163) C. J. Morse

The Problemist, 1989 (V)

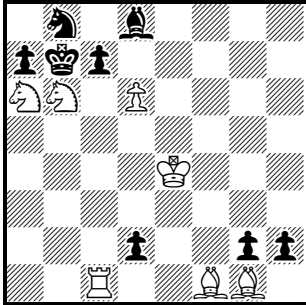


#2

- | | |
|-----------|---------|
| 1.Pa7 | block |
| 1...Pb3+ | 2.Pxb3 |
| 1...Pc5 | 2.Pa8=Q |
| 1...Pd3 | 2.Pxd3 |
| 1...dPxe3 | 2.Pc4 |
| 1...Pxd6 | 2.Pxd6 |
| 1...Pxf6 | 2.Pxf6 |
| 1...fPxe3 | 2.Pg4 |
| 1...Pf3 | 2.Pxf3 |

164) C. J. Morse

The Problemist, 1989



#2

1.Pxc7

1...Pxc1=Q
1...Pxf1=any, Sxa6, Sc6
1...Bxc7

(>2.Pxb8=Q, Pxd8=S, Pc8=Q)

2.Pxb8=Q
2.Pc8=Q
2.Pxd8=S
2.Rxc7