An Introduction to Capped Pawn



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Foreword

George Soules (1937–2013) was a beloved member of the Center for Communications Research, first at the Princeton office, and then at the La Jolla office. Among his many talents, George was an excellent chess player. For him to play an interesting game against one of his weaker colleagues, he needed some kind of handicap. Playing with an extreme time handicap would have been one possibility, but George hit on a better solution. Like Babe Ruth, who was not content with merely hitting a home run, but who called his shot by pointing to the spot where the ball would clear the fence, George declared at the start of the game that he would not only checkmate his opponent, but would deliver checkmate with a specified pawn—the so-called *capped pawn*, which for some years literally sported a conical cap to indicate its special status. Although some thought the cap looked like a dunce's cap, many who witnessed the magic of George's amazing comebacks regarded it as a wizard's cap.

The capped pawn turned what would otherwise be a boring, lopsided contest into a lively afternoon's entertainment. The weaker player, unable to win by conventional means, usually tried to thwart George's stated goal by specifically targeting poor "cappy" with an all-out assault. Capturing the capped pawn would win the game. Many times, the capped pawn seemed hopelessly cornered, or even "checkmated," leading everyone to wonder, "How is George going to get himself out of this one?" About half the time, he couldn't, and had to concede defeat, but the other half of the time, he somehow managed to slip out of the trap like Houdini, turning the tables and winning the game just as he called it. Those fast-paced, timed games, with each player having only five minutes on the clock to complete their moves, were wonderfully social events, drawing onlookers of every level. These games would take place almost every day throughout most of the '80s and '90s.

Some time after George's untimely death, we learned that he had left behind an unfinished draft of a book that he had been writing about this offbeat chess variant. Typeset in a fixed-width font with diagrams rendered using ASCII art, it was not terribly pleasant to read. But when we took a closer look, we were delighted with what we found. For those who had personally played against George back in the day, the highlight was the chapter of illustrated games, which brought back many happy memories. And for the chess problem aficionado, George also presented many subtle positions that he had clearly spent many hours carefully analyzing. Determined to not allow such a treasure to be consigned to oblivion, we have carefully re-typed (and lightly edited) George's manuscript so that it can be enjoyed by a wider audience.

The Oxford Companion to Chess assures us that capped pawn, or pion coiffé, is an ancient form of handicap that dates back to at least the 17th century. However, despite this long history, there is very little literature on the subject, and the popularity of capped pawn has waned. Perhaps some readers will be inspired by this book to revive the game and/or compose some clever problems and studies. We know that George would be thrilled.

Chapter 1

Introduction

Cappy is a game played at IDA/CCR Princeton since 1982. It is played between a gang of kibitzers, who maneuver the Black pieces, and a masochist who must mate with a certain pawn called the cappy. (Editor's note: In diagrams, the square with the cappy is highlighted with a dark border, and a small box—white or black—is displayed to the right of the board to indicate whose turn it is to play. The letter C is used to denote the cappy when it needs to be distinguished from an ordinary pawn.)

1.1 The Rules of Cappy

Usually the cappy starts at g2, but f2, b2 have also been tried. To compensate for the exposed cappy, White starts with two moves. To win on the board, White must deliver mate with the cappy. In return, White loses if mated, or if the cappy is captured or promoted, or if Black is mated with a different piece or pawn. (An interesting variant is if White may not promote any pawn.) Otherwise the rules of chess are followed. Some consequences:

- i) The cappy is not treated like a king; an attack on the cappy can be ignored if White checks the Black king. In the heat of battle a single-move capture of the cappy is occasionally overlooked, and the game continues without material consequence.
- ii) A discovered mate delivered with another piece by moving the cappy is not mate, but a loss for White. However, a double-checkmate by moving the cappy is possible.

1.2 Miscellany

- a) Our clock rules are designed in the interest of the game, rather than to terminate the game. An illegal move, when detected, is retracted with the offending player losing some ticks off the clock, while the other player gains some ticks. If a flag falls in a lost position, the other player usually prolongs the pain by feigning ignorance. Even when one player makes a very poor move, the other player often treats it as an illegal move, with the consequent clock adjustments.
- b) A cappy player of Master speed-chess rank can usually play a novice (a player who has never played tournament chess) roughly even with five minutes apiece on the clock. (The relative times may need some adjustment, but seven to three for either side is rare.) This is quite different than time-handicaps, where often the only question is whether the better player mates before forfeiting.

- c) Cappy is played in the presence of a random element (RE), which is the relative strength of the Black moves. Whereas chess is played and analyzed in a deterministic (perfect information, no RE) scenario, other popular games like bridge, backgammon, and poker have RE's.
- d) There is no "best" move in general, for either player! This is a consequence of the RE. With Black a "good" player, best could be defined as the quickest win (usually of the cappy), which would suggest sharp tactics. Or for a lesser player it could be to make the safest move now, that will eventually lead to a win most surely; this would suggest long-term strategic play. But in either case, with White the better player, Black runs the risk of being outplayed. What should White's strategy be? Should it be to prolong the safety of the cappy, or create holes in the Black defense at all costs, or...? Since White starts with a lost game, the only hope is to take risks to improve the White position.
- e) The openings that have evolved are not in the chess books. The suggestion to "just play chess" as Black doesn't seem to work well with players of suitable relative strengths.

1.3 Why Play Cappy?

- 1) Cappy is a fair game between two players of disparate talents, in which either side can take time to think.
- 2) There are fascinating endgames which can test the best of analysts.
- 3) There are amusing sequences which only occur in Cappy, such as the mop, the swinging rook, the chase, the mate defense, and the punching bag.
- 4) Since White starts with a dead lost position and has no best move, it turns out that Cappy, unlike chess, is a game in which White must bluff. The "Cappy players" (a.k.a. the kibitzers, one of whom plays the Black pieces) did not appreciate this element of the game for several years.
- 5) One of the consequences of RE is the role of the kibitzers. The kibitzing element is abhorrent to chess players, where the best move is best and pointing out a single move can be fatal. But for games with a RE, kibitzing in moderation can lend a social element which is beneficial to the game. (The backgammon chouette provides a natural cadre of kibitzers.) What constitutes a good strategy for White is most dependent on the style of the Black player. It is here that the kibitzers can wield their greatest leverage, by causing Black to alter his repertoire during the game.
- 6) Cappy is more fun than chess—you don't have to win to have a good time. This is partly because it is a fair game which is nonetheless massively out of balance, and which enjoys (suffers?) large swings of fate. Nearly always, someone has a lost position.

1.4 Some Endgame Puzzles

Thanks to Paul Lemke for corrections/confirmations.

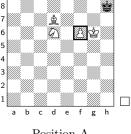
Black has a lone king, denoted by a lowercase k. For the first three puzzles, White has no pawns. By symmetry, we may assume C lies inside the rectangle e2–e6–h6–h2–e2. Thus Ch means the cappy is on the h-file, one of Ch2, Ch3, Ch4, Ch5, Ch6. White moves first in all positions.

P1. Show that with Ce + Q, or Ce6 + Be1 + R, or Cg6 + Bg1 + R, White can mate, but only if Black cooperates.

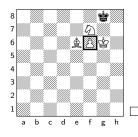
- P2. Show that White cannot mate with Ch6 + R + R, or Ch6 + Bh1 + R, or Ch + Bh1 + N.
- P3. Show that, except for P1-P2, White mates by force in all cases with either C + Q, or C + anytwo of the pieces R-R-N-N-Bg1-Bh1.
- P4. One-piece mates. With C + one piece [R,B,N] there is no forced mate without a favorable position. Find all C positions so that White can mate with Black to move from Bb2, Kf6, C?, kh8. Note with Cg2-g6, the Black king is mated on the 7th rank. Another 3vs1 mate (meaning, X/K/C mates by force vs k) is Qe7/Kf7/Cg5 vs kh8. No other 3vs1 mates exist. However, if the cappy rules did not allow White to promote a Pawn, here are two 4vs1 1-piece mates (XKPC vs k): An RKPC 8th-rank mate starts Rf7/Ke6/Pf6/Cg6 vs ka8. An NKPC 7th-rank mate in 6 starts Nh6/Kf7/Pf5/Cg5 vs kh8. The only 4vs1 1-piece mate on a lower rank starts Qf4/Kg8/Pf3/Cg3 vs kg6: 1.Qf7+ kg5 2.Kh8 kh6 3.Qf6+ kh5 4.Cg4#. A mate on h4 is had by starting all men 1 rank lower. Is there a 4vs1 1-piece mate on the 6th rank? (Only ranks 4-8 are conceivable.) There is one other non-promotion XKPC mate: Bh5/Cg5/Pe7/K-away vs kg7. White pushes the Black king to the 8th rank and arranges for Bh5/Kh6 vs kh8; then 1.Bg6 kg8 2.Be8 kh8 3.g6 kg8 4.Bf7 + kh8 5.g7 #.
- P5. No-piece mates. With Kb7, C?, kd7 how many pawns, none beyond rank 4, does White, to move, need to mate by force without promoting a pawn?
- P6. White has C + P, on the same rank and on adjacent files, defended from behind by the king. Show that with the best possible Black king position, White mates by force only in the following cases.
 - (a) P,C are on files e,f or f,g or g,f respectively.
 - (b) P,C are on g2,h2 or g3,h3 or g4,h4 respectively.

Most interesting is Pg5/Ch4/Kg4/kg7, which Black draws if Ch5 instead, or if White fails to move sideways to or from f3.

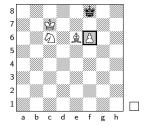
1.4.1 Comments on Puzzles



Position A



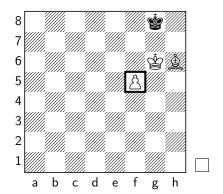
Position B



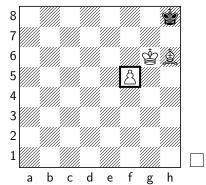
Position C

On P3: All mates with N + N are interesting, as is the mate starting from Kf5/Rg5/Ch5/Rf8/kh6: 1.Rf6+ kh7 2.Rf7+ any 3.Rf8(+) kh7 4.Rgg8 kh6 5.Rh8+ kg7 6.Ch6#. Most interesting is Cf6 + Bf1 + N. White corners the king on h8; see Position A above. As mate is not possible with the Black king on g8, White forces the Black king to f8 starting with Position B. White moves Kh6-Nd8-Nc6, then relocates Kc7 (Position C). A pure mate then follows with Ne5-Ba2-Ng6-Cf7. The mate with Cg6 + Bg1 is simpler. (No mate with Ch/Bh1; see P2.)

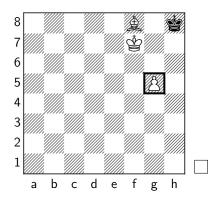
On P4: Shown below are four key positions from which White to move can win.



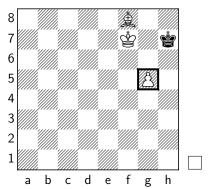
1 f6 **\$h8** 2 **\$g7**+



1 \$\pm\$f8 \$\pm\$g8 2 \$\pm\$e7 \$\pm\$h8 3 \$\pm\$d6 \$\pm\$g8 4 f6 \$\pm\$h8 5 \$\pm\$f8 \$\pm\$g8 6 \$\pm\$h6 \$\pm\$h8 7 \$\pm\$g7+



1 \(\psi g7+

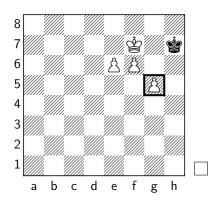


1 &e7 &h8 2 &d6 &h7 3 &f8 &h8 4 &g7+

Thus with the Black king hemmed in, White can change tempo or not and win with the cappy on the f or g file on ranks 2 through 6. From the given starting position, Cf4 allows the king to escape with ... kh7. So the answer is Cf2, Cf3, Cf5, Cg2, Cg3, Cg4, Cg5 all win and Cf4 doesn't.

On P5: The answer is that with one pawn, mate is possible but requires Black's help. But with Pe4, Pf4, Cg4 White mates starting with 1.e5. The final position is Kh6/kh8/Pe7/Pf7/Cg7.

The key position to mating with P,P,C is that White mates in the position below with either side to move.



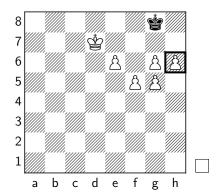
With White to move: 1 e7 常h8 2 常e6 常h7 3 常f5 常g8 4 g6 常h8 5 常g5 常g8 6 常h5! 常h8 7 常h6 常g8 8 f7+ 常h8 9 g7#.

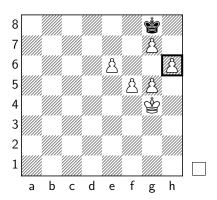
With Black to move: 1... \$\ddots h8 2 \ddots g6 \ddots g8 3 e7 \ddots h8 4 \ddots h5 etc.

With Kb7, Pe4, Pf4, Cg4, White mates if the Black king is anywhere on files d-h and ranks 6-8, except for d6.

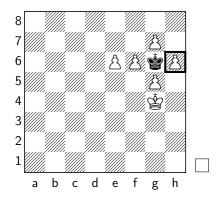
Starting with Ka7, kc7 White needs Pd4, Pe4, Pf3, Cg3, at least, to win. With six pawns on b4–g4 and Black's king in front of the pawns, White can mate, without promoting, with any pawn of his choice; i.e., with any one of the six pawns the cappy.

With Ch instead of Cg, it appears the dead-minimum no-promotion mate with pawns only is Pe4, Pf4, Pg4, Ch4, Pg3 with Kb7, kd7. White starts with e5, pushes the king into the corner, then positions his pawns on e6, f5, g5, g6, Ch6 as in the diagram below on the left. White begins with g7, and the Black king is trapped by pawns, so White can get his king to g4, as in the diagram below on the right. He waits for Black to play ... kh7 to play Kh5, and then mates with f6, g6+, Ch7#.





The Pg7 is needed to cover h8, and Pf6 is needed to cover g7. The Ch7 mate requires defending by Pg6. The Pe6 is needed to keep the king from f7. The Pf5 is needed to keep the king from g6, since mating from the position below requires cooperation.



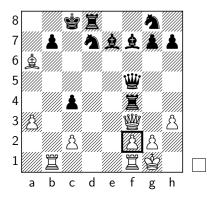
Another suggested rule change is to have a draw count as a win for Black, but with that rule the endgames would be much less interesting.

On P6: White can't mate with his pawn on the h-file, as Black runs to h8 and sits. It's a draw with Ce, Pf by problem P1.

With Pg5, Ch4 Black draws if he can move his king to square (x) for each White king square: Ke5/e4/g4(g6), Ke3/f3/f5/g3(g7), Kf4/h3(f7), Ke12/f12/g12/h12/h12(f8,g8). So if White doesn't move sideways to or from f3, Black can draw.

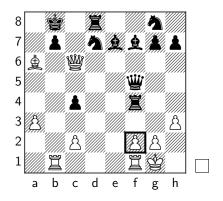
1.5 The Swinging Rook and the Mop

It's not hard to guess why these maneuvers are so-named. In the position below, all Black's pieces, save two pawns, are defended, and Black has a big attack on the cappy file.

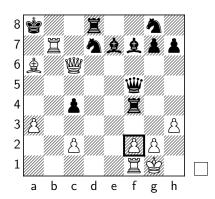


Since White loses by mating with a rook or queen, the continuation $1 \& \times b7 + \& b8 2 \& a6 + \& a7$ $3 \& b7 + \& \times a6 4 \& c6 + \& a5$ is a win for Black. But, beware the swinging rook:

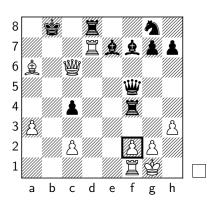
1 豐c6+! 曾b8



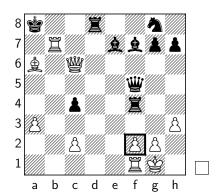
2 ≝×b7+ 🗳a8



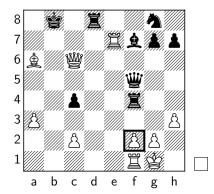
3 罩×d7+ �b8



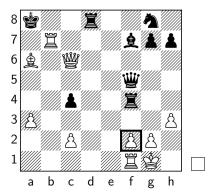
4 ≌b7+ 🗳a8



5 \(\mathbb{z} \text{xe7+ \(\mathbb{e} \) b8

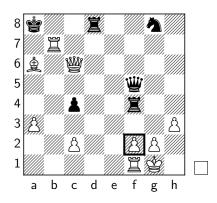


6 **□**b7+ **\$**a8

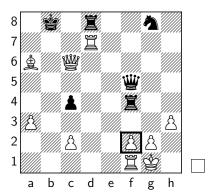


You get the idea. The rook swings back and forth from b7, clearing the seventh rank. Several moves later we come to the eighth-rank "mop":

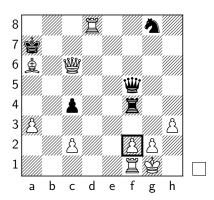
12 罩b7+ 曾a8



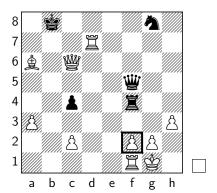
13 **□**d7+ **७**b8



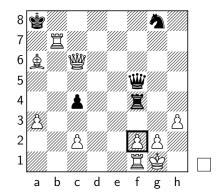
14 罩×d8+ **‡**a7



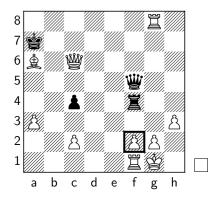
15 **□d7+ ♦b8**



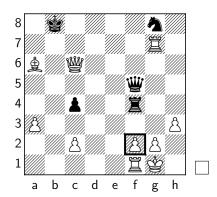
16 **□**b7+ **७**a8



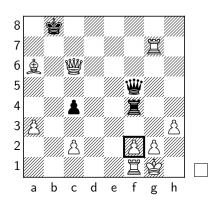
18 **≅**×g8+ **‡**a7



17 **□**g7+ **\$**b8

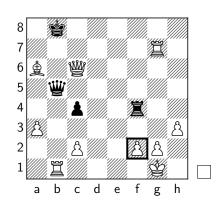


19 **⊑**g7+ **\$**b8

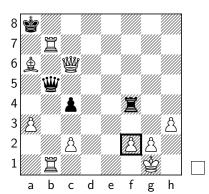


How to part Black from his last two pieces? Another form of the mop:

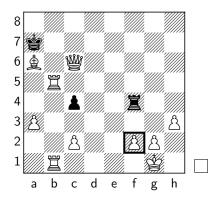
20 罩b1+ 豐b5



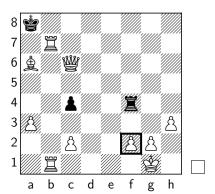
21 罩b7+! 曾a8



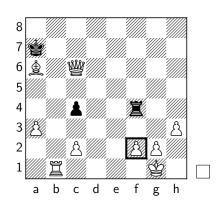
22 **罩**7×b5+ **‡**a7



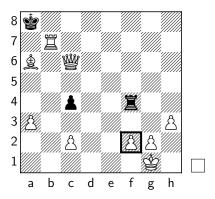
23 **□**b7+ **�**a8



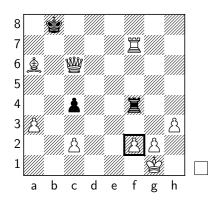
24 ≌a7+! 🕏×a7



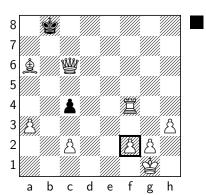
25 **□**b7+ **□**a8



26 ⊑f7+ \$b8



 $27 \ \mathbb{Z} \times f4$ and wins.

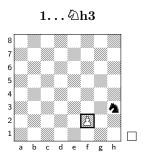


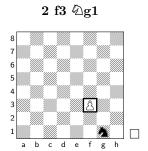
White checked the Black king for 26 consecutive moves!

The end comes three moves sooner if Black either interposes on f7 or captures on b7 when he might have. For example, 19... #f7 20 =xf7+ =xf7 21 #ec5+ \$\displant b8 22 #es5+ \$\displant a7 23 #es3+ \$\displant x6 24 #e6+. With the clock, the extra moves can make the difference.

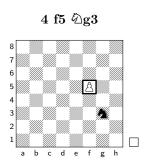
1.6 The Chase

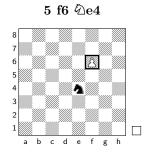
On an open board, "the chase" is shown starting with the cappy on f2.

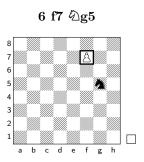




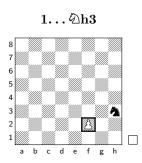


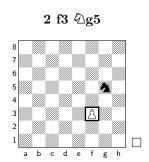




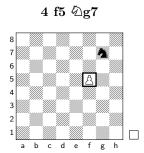


Black wins. The chase also takes a slightly less elegant form ("the come-on"?).

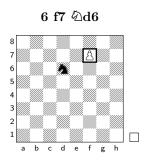








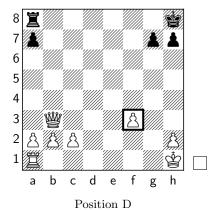




15

1.7 The Mate Defense

This play can be most annoying to White. In Position D below, White would gladly swap both pieces for the rook, but after 1 \mathbb{@}f7, Black wins with 1...\mathbb{Z}f8.

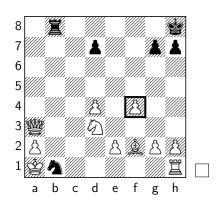




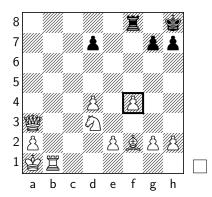
Position E

We show how it can take a huge material loss to (almost) thwart the mate defense. In Position E above, 1... $\clubsuit h8$ loses quickly for Black:

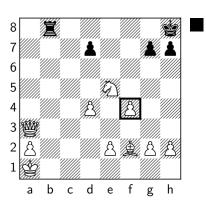
2 **②**d3 **②**×b1



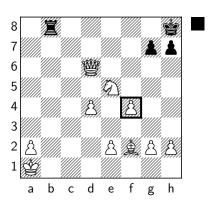
3 \(\bar{\su} \times b1 \(\bar{\su} \f 8 \)



4 ℤb8 ℤ×b8 5 ᡚe5



5...d6 6 *********d6** and 7 **\empty g6** looms.

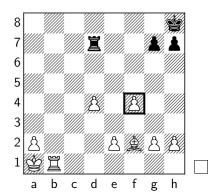


A direct assault on the cappy by 1...g5 2 f5 $\blacksquare b5$ loses to 3 $ext{@c5}$. But after $1... ext{@b3+!}$ White cannot play 2 a×b3 as the $\blacksquare b8$ deflection vanishes. So...

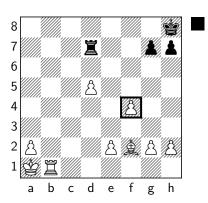
2 豐×b3+ 曾h8! 3 �d3 罩f8 8 8 7 6 6 5 5 4 4 6 3 3 2 2 2 1 С d e f g h b С d e f g h b 4 豐b8 罩xb8 5 **②e5 罩f8** 8 7 6 6 5 5 4 4 3 3 2 2 2 Å d b d e f g b С С е 6 ≌b8 ≅×b8 7 ②d7 罩d8 8 8 7 6 6 5 5 4 4 3 3 2 2 Å 1 С b С d

7... \mathbb{Z} e8 loses to 8 \mathbb{Z} b1 then 9 \mathbb{Z} b8. It begins to get interesting, and White is lost. The White tries are 8 \mathbb{Z} b1 and 8 \mathbb{Q} f6. 8 \mathbb{Z} b1 loses quickly:

8 **□**b1 **□**×d7

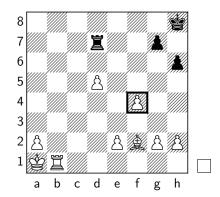


9 d5

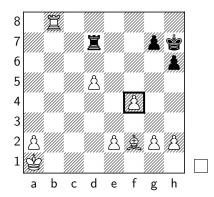


The threat is 10 $\Xi b8+$ then 11 &a7. So Black has to a bandon the mate defense.

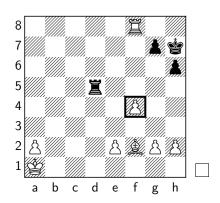
9...h6



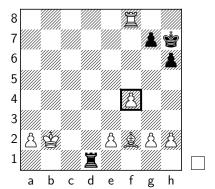
10 **□**b8+ **\$**h7



11 **⊑**f8 **⊑**×d5

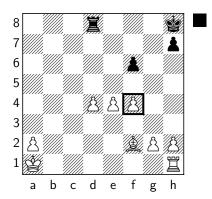


12 **ģ**b2 **罩**d1

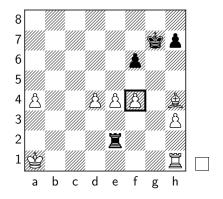


Black wins with 13... \(\begin{aligned} \begin{aligned} \text{ \text{ Ef1 next}} & \text{ The other try:} \end{aligned} \)

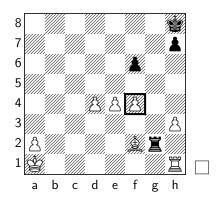
8 \(\hat{2}\) f6 g×f6 9 e4



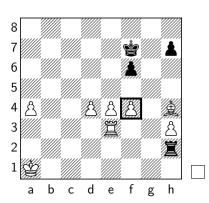
11 **≜**h4 **≜**g7 12 a4 **⊑**e2



9... **\Z**g8 10 h3 **\Z**×g2

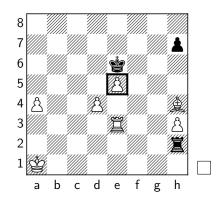


13 **E**e1 **E**h2 14 **E**e3 **\$**f7

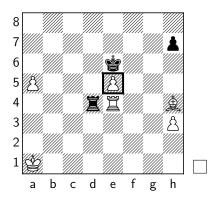


(The last move, 14... $\$ f7, was to avoid $\$ g1 or $\$ g3 at the wrong moment.) In this position either 15 $\$ e1 $\$ h1 or 15 d5 $\$ h1+ 16 $\$ e1 $\$ axh3 win for Black. No better was 11 $\$ f1 $\$ h2 12 h4 $\$ h3 13 $\$ e1 $\$ e3 14 f5 $\$ axe4 15 $\$ e3 $\$ axh4. The only other try seems to be 15 e5:

15 e5 f×e5 16 f×e5 **\$**e6



17 a5 \mathbb{Z} d2 18 \mathbb{Z} e4 \mathbb{Z} ×d4 and Black wins.



This position demonstrated many Cappy strategies—the mate defense (three times), deflection (with the rook pins), masking the cappy, and finessing to win the cappy against superior material.

Chapter 2

Eight Games

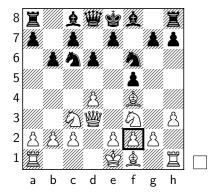
We use initials only to mask the identities of the culprits. More recently discovered games on Cgame.log.tex.

2.1 Game A: GS-DR, 3/29/84. Cappy on f2

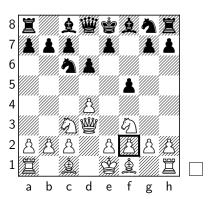
1 d4 2 \(\tilde{2} \) c3 f5



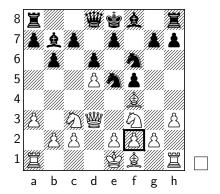
5 ≜f4 �f6 6 h3 b6



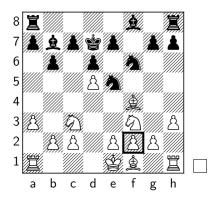
3 \\delta d3 d6 4 \Qf3 \Qc6



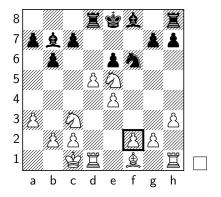
7 a3 ≜b7 8 d5 �e5



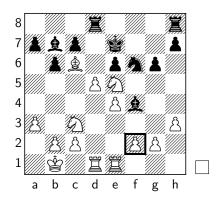
9 豐×f5 豐d7 10 豐×d7+ 尝×d7



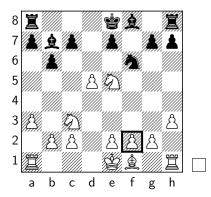
13 O-O-O \(\bar{2} \)d8 14 e4 e6



17 \$c6 \$h6+ 18 \$b1 \$f4

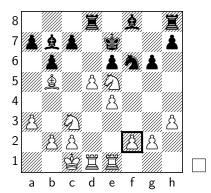


11 **≜**×e5 d×e5 12 **②**×e5+ **№**e8



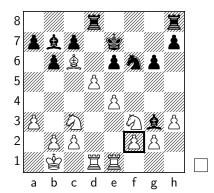
15 **\$b5+ \$e7** 16 **\$\beta\$he1 g6**

Black has a good idea, but he should play 17...\$xc6 next.

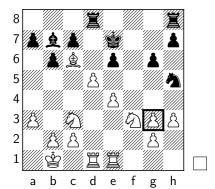


19 **⊘**f3 **≜**g3

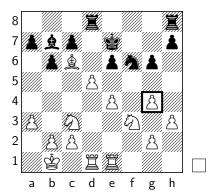
A typical exposure maneuver.



20 f×g3 ⊘h5

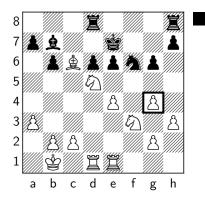


21 g4 **②**f6

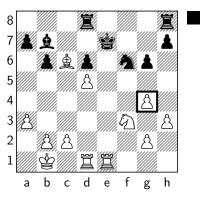


It looks like the cappy is a dead duck, but Black goes astray with some stock responses.

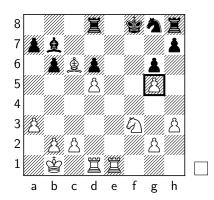
22 d6+ c×d6 23 ∅d5+



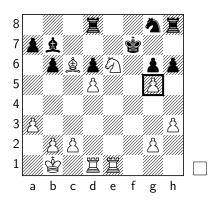
23... exd5 24 exd5+



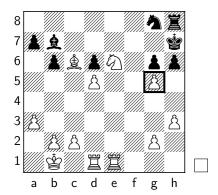
24... \$\displaystyle{9}\$f8 25 g5 \@\displaystyle{9}\$g8



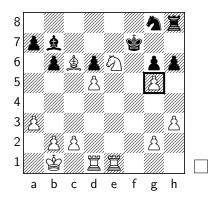
26 \triangle d4 h6 27 \triangle e6+ \triangle f7 King to e7-f7-g7-h7 still wins.



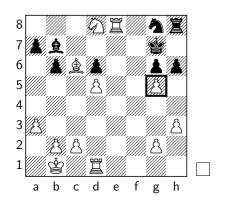
28 $@\times d8+ cde g7$ 29 @e6+ cde h7



30 Øf8+ \$g7 31 Øe6+ \$f7

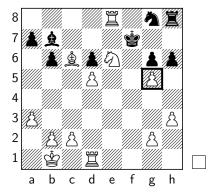


32 ②d8+ 曾f8 33 罩e8+ 曾g7

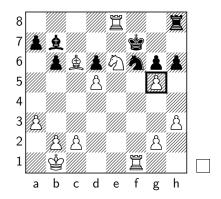


34 ②e6+ **∲**f7

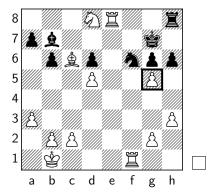
Last chance to draw was 34... \$\ddot\draw h7.



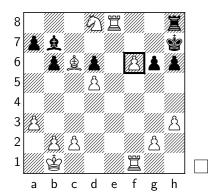
35 \(\bar{2}\)f1+ \(\bar{2}\)f6



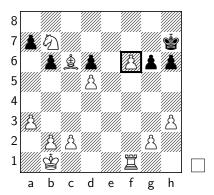
36 **②**d8+ **曾**g7



37 g×f6+ \$\disphread{1}{2}h7



38 罩×h8+ 鸷×h8 39 ②×b7 鸷h7



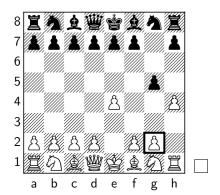
The cappy was hanging for 16 of 17 moves, 11 in a row, but the bishop was hanging for 22 straight moves!

It's mate in 13 or so: 40 g4 g5 41 \triangleq e8 h5 42 \equiv e1 a6 43 \equiv e7+ \Leftrightarrow h6 44 \equiv g7 h×g4 45 h×g4 a5 46 \equiv g6+ \Leftrightarrow h7 47 \otimes d8 b5 48 \otimes e6 b4 49 \otimes ×g5+ \Leftrightarrow h8 50 \equiv h6+ \Leftrightarrow g8 51 \otimes e6 b×a3 52 f7#

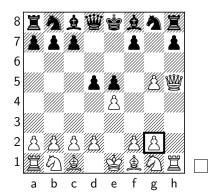
2.2 Game B: GS-AR, 2/25/88. Cappy on g2

This game illustrates the "punching bag"; the Black king gets shoved around the board until a piece (or pieces) threatening the cappy gets caught in the crossfire. Get out an extra chess set.

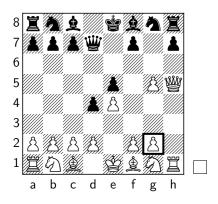
1 e4 2 h4 g5

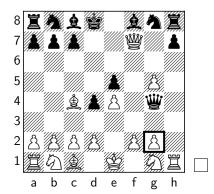


3 h×g5 e5 4 ∰h5 d5

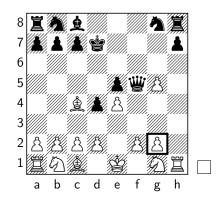


5 公c3 d4 6 公b1 豐d7

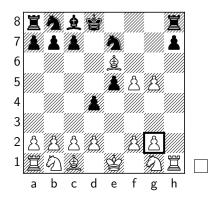




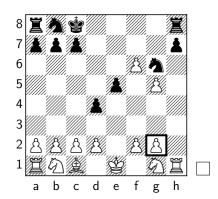
9 豐×f8+ 曾d7 10 豐f5+ 豐×f5



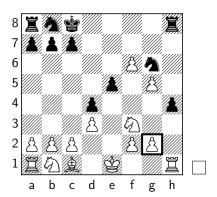
11 exf5 ②e7 12 **≜**e6+ **⊜**d8



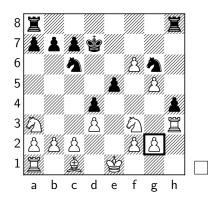
13 ≜×c8 ≌×c8 14 f6 ᡚg6



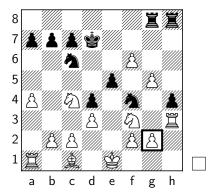
15 d3 h5 16 公f3 h4



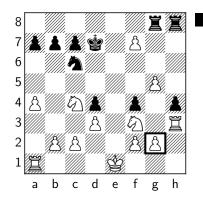
17 ≣h3 **\$**d7 18 **\$**a3 **\$**c6



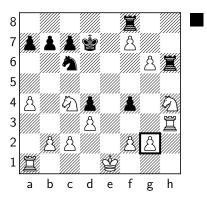
19 ②c4 🖺ag8 20 a4 ②f4



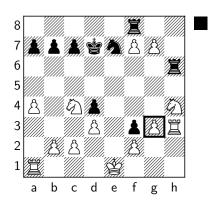
 $21 \stackrel{\text{\red}}{=} \times \text{f4} \text{ e} \times \text{f4} 22 \text{ f7}$



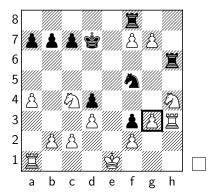
22... Ξ f8 23 g6 Ξ h6 24 \triangle ×h4



 $24\dots f3$ 25 g3 ${\rm @e7}$ 26 g7

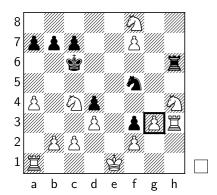


26...**约**f5

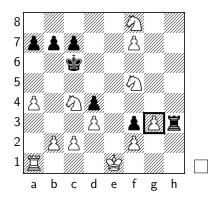


Black thinks a kill is at hand, but this move loses "quickly."

27 g×f8∅+ **\$**c6

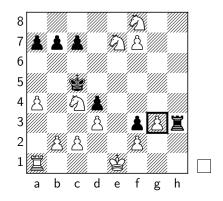


28 ፟∅×f5 🗒×h3

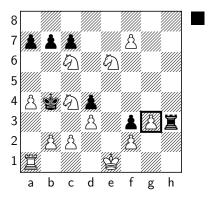


If the king were on c8, White could win, as here, with 29 g4 \blacksquare h1+ 30 \d d2 \blacksquare xa1 31 \d g3 \d b8 (31... \blacksquare xa4 32 \d d7!) 32 \d d7+ \d a8 33 \d cb6+ cxb6 34 \d xb6+ axb6 35 f8 \d \d +.

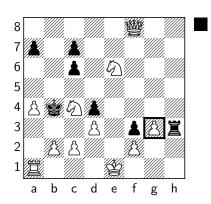
29 ②e7+ **\$**c5



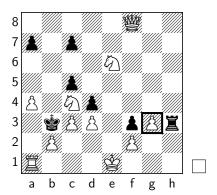
30 ②e6+ **\$b4** 31 ②c6+



31...b×c6 32 f8豐+

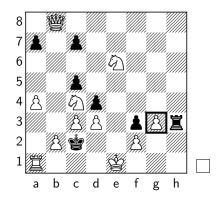


32...c5 33 c3+ **\$**b3

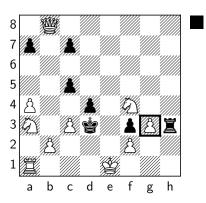


If 33...d×c3 then 34 豐×c5+ 堂b3 35 豐a3+ 堂c2 36 ②e3+ 堂×d3 37 ②f4+ wins the rook.

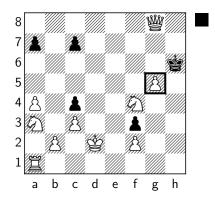
34 豐b8+ 曾c2



35 ②a3+ **\$**×d3 36 **∑**f4+



White mates in 8 with 36... 2e4 37 8e8+ 2f5 38 8e6+ 2e5 39 2xh3+ 2e5 40 8e5 43 2e5 41 2e5 44 2e5 43 2e5 45 2e5 46 2e5 46 2e5 47 2e5 48 2e5 49 2e5 40 2e5

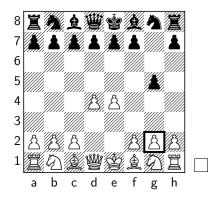


Did you miss two quick wins for Black? After 22 f7 Ξ g7! the advanced pawns fall. And after 26 g7 Ξ e6+! and 27... Ξ xf7 it's curtains.

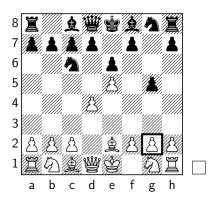
2.3 Game C: GS-AR, 8/5/96. Cappy on g2

Black misses a quick win, then falls for a trap, losing two pieces.

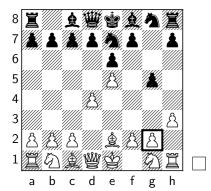
 $1~\mathrm{e}4~2~\mathrm{d}4~\mathrm{g}5$



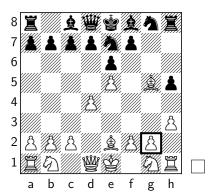
3 e5 e6 4 \(\partial e2 \) \(\Quad \) c6



5 h3 ②ce7

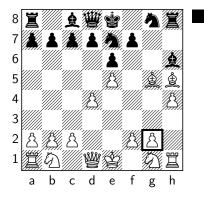


6 **\$**×g5 h5

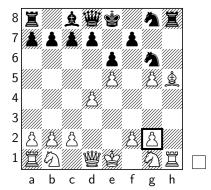


The kibitzers were pushing for 6... 2g6 7 $\textcircled{2} \times d8$ 2f4, but with no convincing line put forward, Black settles for a slower assault.

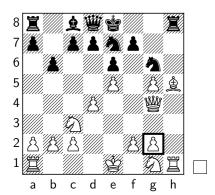
7 h4 \$h6 8 \$xh5



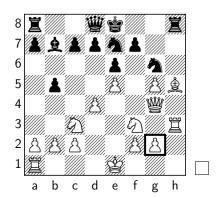
8... **≜**×g5 9 h×g5 **②**g6



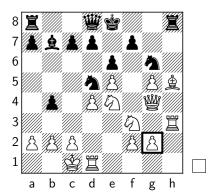
10 $ext{@g4}$ $ext{@8e7}$ 11 $ext{@c3}$ b6



12 罩h3 **&**b7 13 **公**f3 b5

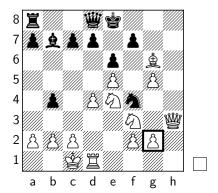


14 O-O-O b4 15 2e4 2d5

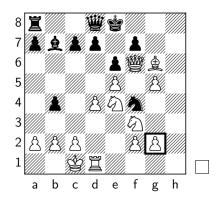


16 食×g6 罩×h3 17 豐×h3 勺f4?

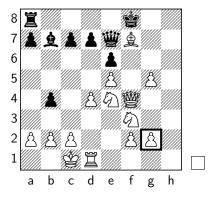
Falls for the trap. It's a draw after $17...f \times g6$ 18 @h8+.



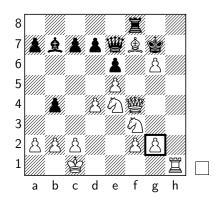
18 豐h8+ 曾e7 19 豐f6+ 曾e8



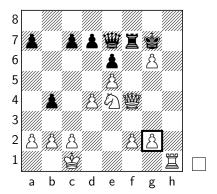
20 &×f7+ 曾f8 21 豐×f4 豐e7



22 g6 🛊 g7 23 🖺 h1 🖺 f8

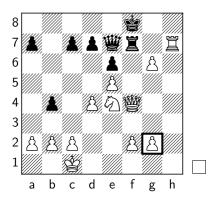


24 ∅fg5 **≜**×e4 25 ∅×e4 **\(\begin{align} \begin{align} 24 \\ \Delta \ext{fg}5 \\ \begin{align} \begin{align} 44 \\ \Delta \ext{fg}5 \\ \\ \Delta \ex**



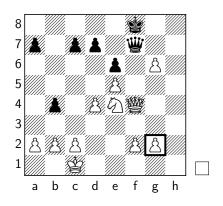
Black thinks White can't mate with about 4 seconds on his clock. Oops.

26 \(\begin{aligned} \begin{aligned} 2h7+ \begin{aligned} \$\delta\$ f8 \end{aligned} \]



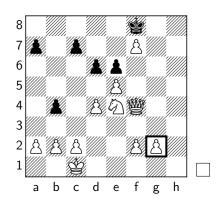
26... 営 \times g6 27 營h6+ 営f5 would have lost even faster.

27 罩×f7+ 豐×f7

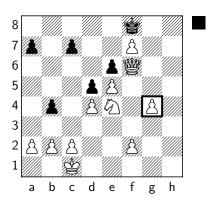


27... \$\delta e8\$ holds on a bit longer.

 $28 \text{ g} \times \text{f} 7 \text{ d} 6$



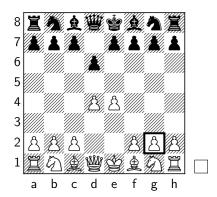
29 \(\mathbb{e}\)f6 d5 30 g4 and White wins.



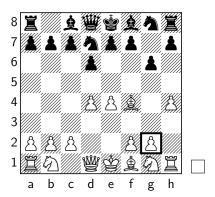
2.4 Game D: GS–RC, 8/16/96. Cappy on g2

White misplays a good position, but Black telegraphs his intentions.

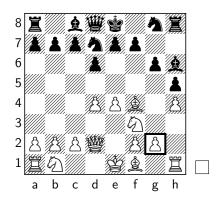
1 e4 2 d4 d6



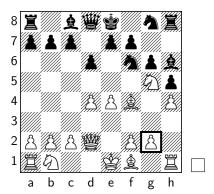
3 4 f4 2 d7 4 h4 g6



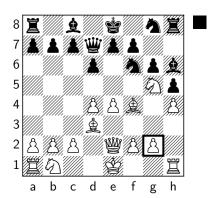
5 包f3 h5 6 豐d2 魚h6



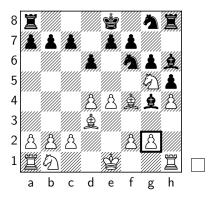
7 🖺 g5 🖺 df6



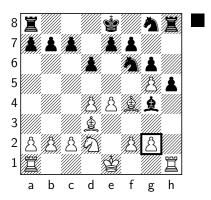
8 &d3 豐d7 9 豐e2



9... **曾**g4 10 **曾**×g4 **호**×g4

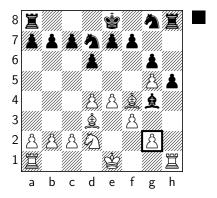


11 Ød2 ≜×g5 12 h×g5

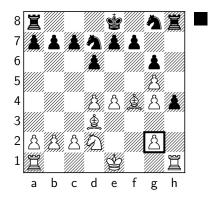


12... ∕∆d7 13 f3!?

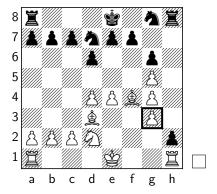
A risky move, but White must take chances.



13...h4 14 f×g4

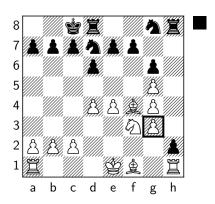


14...h3 15 g3 h2

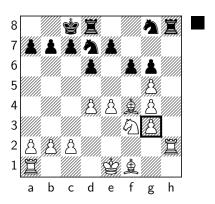


16 &f1 O-O-O 17 2f3?

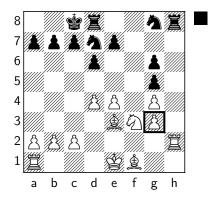
A big mistake. 17 \mathbe{g} f2 and 18 \mathbe{g} g2 and 19 \mathbe{x} xh2 was safer.



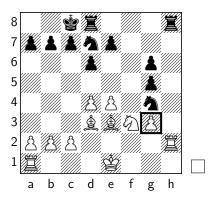
17...f6 18 \(\big| \times h2



 $18...f \times g5$ 19 &e3

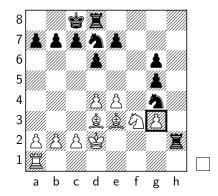


19... ∅gf6 20 ≜d3 ∅×g4

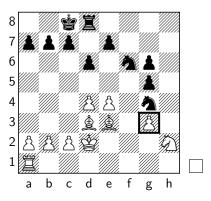


21 \$\d2 \square \xh2+

The kibitzers wanted $21... \triangle \times h2$, but Black sees a win.



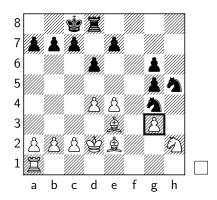
22 ②×h2 ☑df6



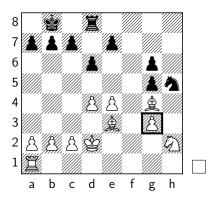
Black announces that 23... ∅h5 can't be stopped, so why slow down the win with 22... ∅xh2?

23 **≜**e2 **②**h5?

Black misses 23... $\textcircled{2} \times e4+$ by sheer momentum.

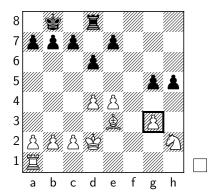


24 **≜**×g4+ **≜**b8

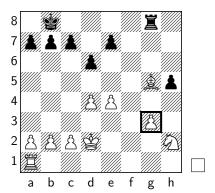


25 **\$\text{\$\psi}\$** xh5 gxh5

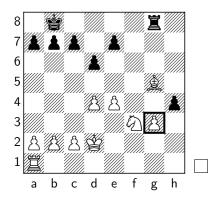
The rook and the pawns on g5 and h5 aren't enough to draw.



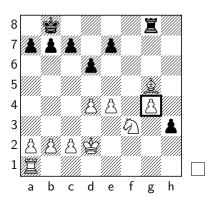
26 **≜**×g5 **Ξ**g8



27 **2** f3 h4



28 g4 h3

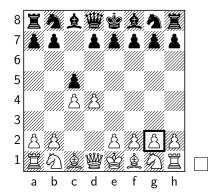


White now trades rooks or promotes a pawn. Black can only delay by opening files.

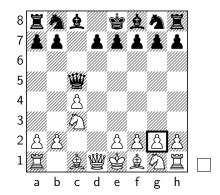
2.5 Game E: GS-PL, 9/6/96. Cappy on g2

Black falls behind in development, and falls...

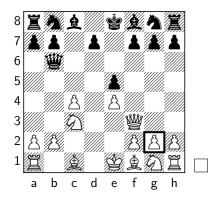
 $1~\mathrm{d}4~2~\mathrm{c}4~\mathrm{c}5$



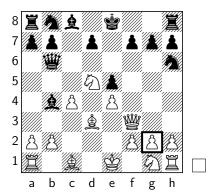
3 d×c5 豐a5+ 4 公c3 豐×c5



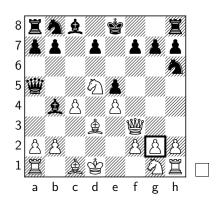
5 e4 豐b6 6 豐f3 e5



7 单d3 ②h6 8 ②d5 单b4+

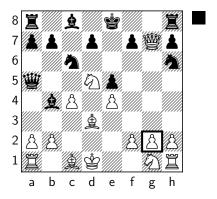


9 曾d1 豐a5

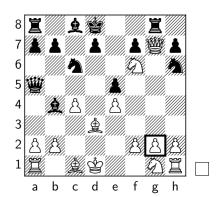


10 豐g3 公c6 11 豐×g7

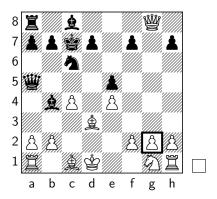
Now, it may already be a win for White.



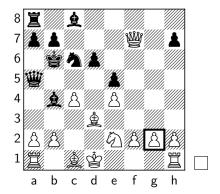
11... 罩g8 12 匂f6+ 営d8



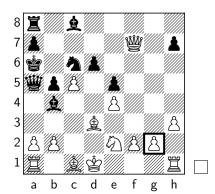
13 ②×g8 ②×g8 14 豐×g8+ 含c7



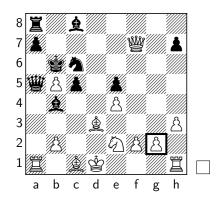
15 ≝×f7 ≰b6 16 ᡚe2 d6



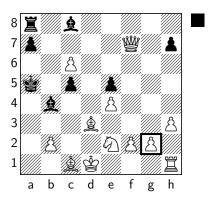
17 h3 \$\displays a6 18 c5 b5



19 a4 d×c5 20 a×b5+ \$b6



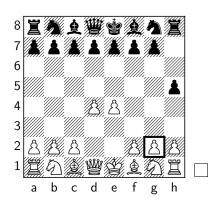
21 $\boxtimes \times a5 \cong \times a5$ 22 b×c6 Black lost on time.



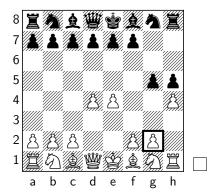
2.6 Game F: GS-DM, 9/26/96. Cappy on g2

Black uses the mate defense for an (over-)extended period.

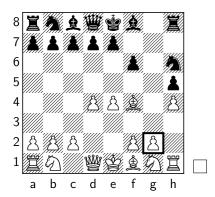
1 e4 2 d4 h5



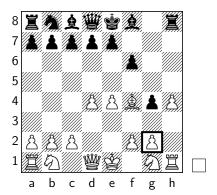
3 h4 g5 Black overplays opening the kingside.



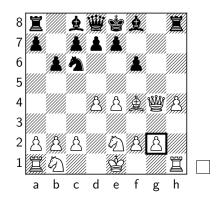
4 **≜**×g5 f6 5 **≜**f4 **②**h6



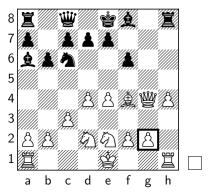
6 **≜**e2 **②**g4 7 **≜**×g4 h×g4



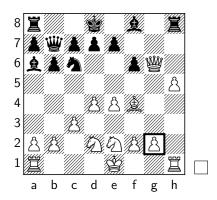
8 $\text{@} \times \text{g4} \ \text{@} \text{c6} \ 9 \ \text{@} \text{e2} \ \text{b6}$



10 公d2 **≜**a6 11 c3 豐c8

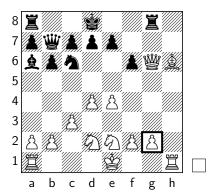


12 豐g6+ 曾d8 13 h5 豐b7

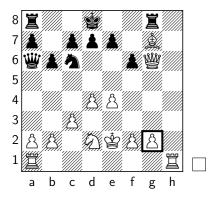


14 h6 **≜**×h6 15 **≜**×h6 **\(\bar{2}**g8\)

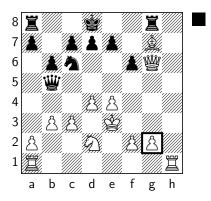
The rook is keeping the bishop and queen busy.



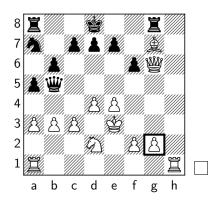
16 **ģg7 \$\delta** xe2 17 **\$\delta** xe2 **\$\delta\$** a6+



18 曾e3 曾b5 19 b3

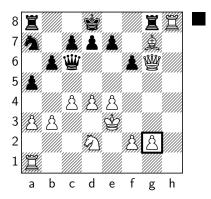


19...a5 20 a3 **⊘**a7

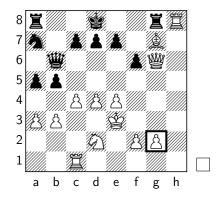


21 c4 豐c6 22 罩h8

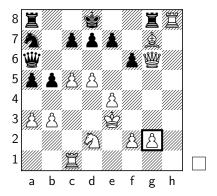
Now the queen is available.



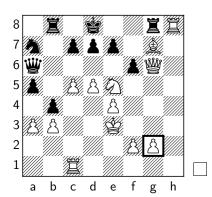
22...b5 23 罩c1 豐b6



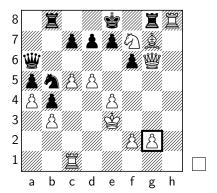
24 c5 \cup c6 25 d5 \cup a6



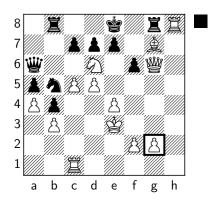
26 🗹 f3 🖺 b8 27 🖾 e5 b4



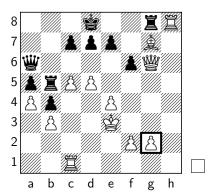
28 a4 Øb5 29 Øf7+ \$e8



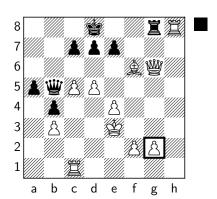
30 ⊘d6+ Squeezing Black is more satisfying than the rook.



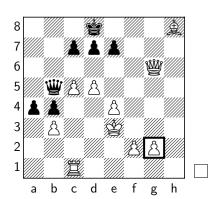
30... \$\d8 31 \@\xb5 \\ \xi\xb5

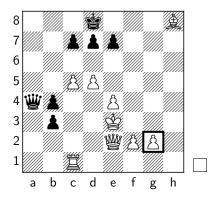


32 $a \times b5$ $@ \times b5$ 33 & f6 Typical maneuver for stopping the mate defense.

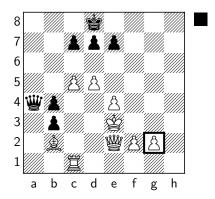


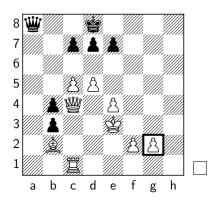
33... ≅×h8 34 ≜×h8 a4





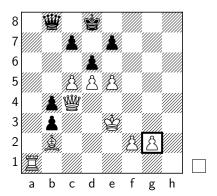
37 ≜b2? Oops. 37 **\(\bar{a}** a1 \) won quickly.



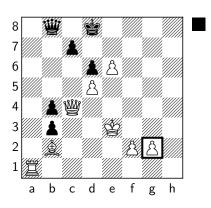


39 \(\begin{array}{c} \begin{array}{c}

At last Black must abandon the mate defense.

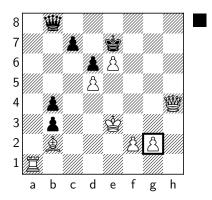


 $41 \text{ c} \times \text{d} 6 \text{ e} \times \text{d} 6 \text{ } 42 \text{ e} 6$



42... 曾e7 43 豐h4+

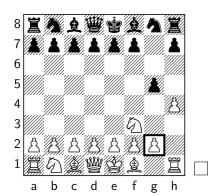
Black's queen is lost; White wins.



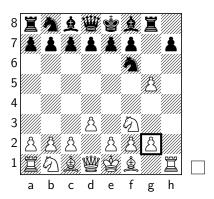
2.7 Game G: GS-AR, 9/30/97. Cappy on g2

Black gets overly frisky with his king, and a swinging knight mops up.

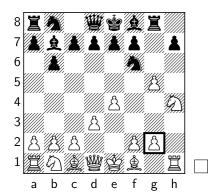
1 **2** f3 2 h4 g5



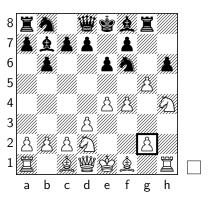
3 h×g5 �f6 4 d3 罩g8



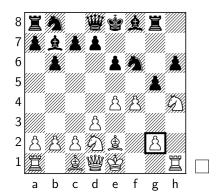
5 ©h4 b6 6 e4 &b7



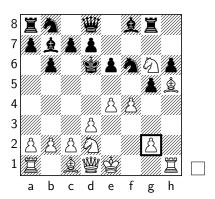
7 f4 e6 8 2d2 h6



9 g6 f×g6 10 \triangleq e2 g5

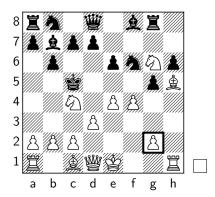


11 \$h5+ \$e7 12 \$\alpha\$g6 \$\d6\$

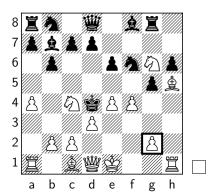


Black missed a good shot: 12... \$\displaystyle{e}\$f7! after which Black finds a haven at h8.

13 ②c4+ **⊜**c5

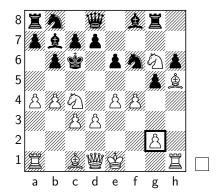


14 a4 **\delta**d4

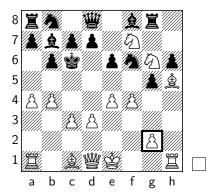


If $14... \triangle \times e4$ 15 & e3+ & b4 16 $c3+ \triangle \times c3$ 17 $b \times c3+ \& \times c3$ 18 $\verb"\exists c1+ \& b4$ 19 & d2+ & c5 20 $\triangle ce5+ \& d4$ 21 $\& e3+ \& \times e3$ 22 & e2+ & d4 23 & e3+ & d5 24 & e3+ & d6 25 $\& \times b7$ wins.

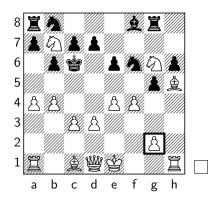
15 c3+ \$c5 16 b4+ \$c6



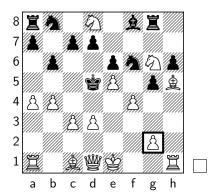
17 ②ce5+ \$\dot{\$\dot{d}\$}66 18 ②f7+ \$\dot{\$\dot{c}\$}66



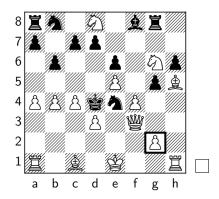
19 ፟∅×d8+ \$d6 20 ∅×b7+ \$c6



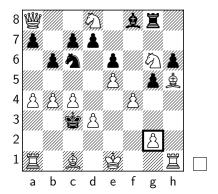
21 🖄 d8+ 🛊 d6 22 e5+ 🛊 d5



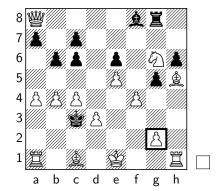
23 營f3+ ②e4 24 c4+ 含d4



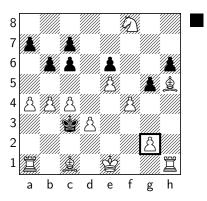
25 豐×e4+ 曾c3 26 豐×a8 匂c6



27 ②×c6 d×c6



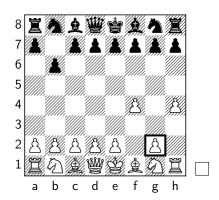
28 豐×f8 罩×f8 29 匂×f8 mop.



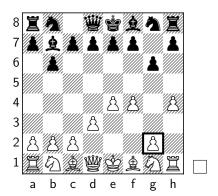
2.8 Game H: GS-AR, 9/10/99. Cappy on g2

Black is late in opening the g-file.

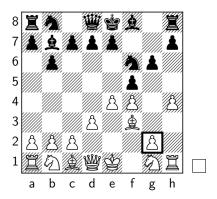
1 f4 2 h4 b6



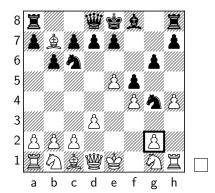
 $3~\mathrm{e}4~\mathrm{\textsterlingb}7~4~\mathrm{d}3~\mathrm{g}6$



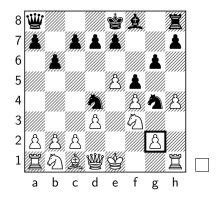
5 **\$e2** f5 6 **\$f3 \Quad f6**



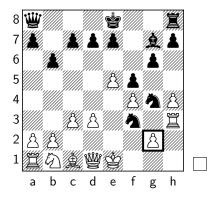
7 e5 **②g4** 8 **≜**×b7 **②c6**



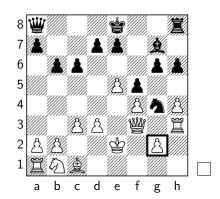
9 **&**xa8 豐xa8 10 公f3 公d4



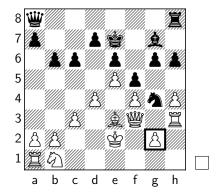
11 ⊑h3 ≜g7 12 c3 ∅×f3



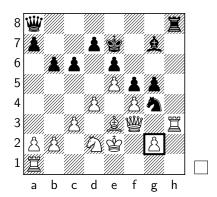
13 ≝×f3 c6 14 ⊈e2 h6



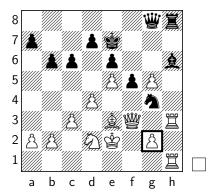
15 **\$e3** e6 16 d4 **\$e7**



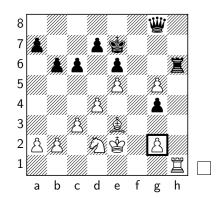
17 Ød2 g5 18 h×g5 h×g5



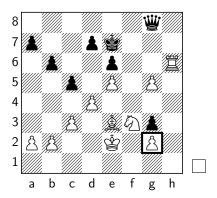
19 f×g5 豐g8 20 罩ah1 食h6



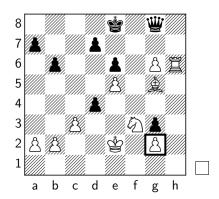
21 豐×g4 f×g4 22 罩×h6 罩×h6



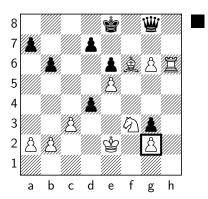
23 \(\Sigma \) \(\hat{h}6 \) g3 24 \(\hat{\partial} \) f3 c5



25 g6 c×d4 26 ≜g5+ \$e8



27 \(\delta\)f6 White wins.

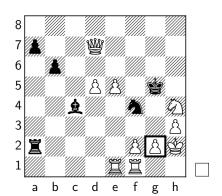


Until the last move, the game was still on the line. If carelessly $27 \, \text{cxd4}$ instead, $27...\,\text{d}5$ draws for Black. E.g., $27 \, \text{cxd4}$ d5 $28 \, \text{exd6}$ &d7 $29 \, \text{\&}44 \, \text{\&}68$ 30 \$\textsuperscript{e}4+ \text{ forces a draw.}\$ (Editor's note: On move 29, White has a better move; $27 \, \text{cxd4} \, \text{d}5 \, 28 \, \text{exd6}$ &d7 $29 \, \text{\&}65+ \, \text{\&}\times \text{d}6 \, 30 \, \text{\&}18! \, \text{\&}g7 \, 31 \, \text{\&}d8+ \, \text{\&}c7 \, 32 \, \text{\&}d7+ \, \text{wins the queen, or if } 29... \, \text{\&}c8 \, 30 \, \text{d}7+ \, \text{and White promotes.}$ The original manuscript contained some further analysis, which we have omitted because it is no longer relevant in light of this variation.)

Chapter 3

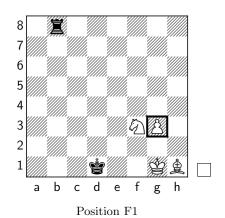
Miscellany

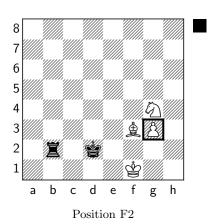
3.1 Can White Mate Quickly?



When time is running out, White needs a mate, not a mop. A quick mate follows **1 豐e7+ 含h6 2 ②f5+**: (a) 2...含h5 3 **豐**h7+含g5 4 **豐**h6+ or (b) 2...含g6 3 **豐**g7+. If 1...含h5 2 **豐**f7+ and (a) 2...含h6 3 **②**f5+含g5 4 **豐**f6+ or (b) 2...含xh4 3 **豐**f6+ or (c) 2...②g6 3 **豐**×g6+.

3.2 The Curious Case of the Cloistered Cappy

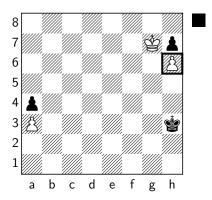




It might seem that White is lost in Position F1, with so many lines open and the cappy moved. Yet $\mathbf{1} \ \triangle \mathbf{h2}$ draws. After 1... $\ 2 \ \underline{\$} \mathbf{f3} \ \underline{\mathtt{Bb3}} \ 3 \ \underline{\$} \mathbf{g2} \ \underline{\mathtt{Bb2}} \mathbf{+} \ 4 \ \underline{\$} \mathbf{g1} \ \underline{\mathtt{Bf2}} \ 5 \ \underline{\$} \mathbf{g4} \ \underline{\mathtt{Bf8}} \ 6 \ \underline{\$} \mathbf{g2} \ \underline{\mathtt{Bg8}} \ 7 \ \underline{\triangle} \mathbf{f3} \mathbf{+} \mathbf{g4} \mathbf{g4} \mathbf{g5} \mathbf{g5}$

학e 2 8 전h2, etc. And 1... 학e 2 2 호f3+ 학e 3 3 학g2 is no better. After 1... **프g8 2 호f3+ 학d2 3** 전**g4 프b8 4 항f2 프b2 5 항f1** we arrive at the titled CCCC position in Position F2. Not only is the cappy cloistered, but so is the bishop: neither has to move again.

3.3 Pawn Ending

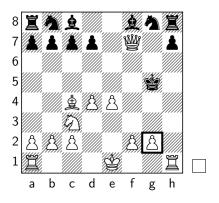


Black to move wins, but not with 1... 常g3 2 常xh7 常f3 3 常g6 常e3 4 常f5 常d3 5 常f4 常c3 6 常e3 常b3 7 常d3 常xa3 8 常c3 常a2 9 常c2 a3 10 h7, which only draws. The win is to force h7 before capturing on a3: 1... 常g4 2 常xh7 常f5 3 常g7 常g5 4 常h7 常f6 5 常g8 常g6 6 h7; then White has no tempo move after Black plays ... a3, so loses.

White to move can draw only if he gains the opposition with 1 党×h7 党h4 2 党h8 党g4 3 党g8 党f4 4 党f8 党e4 and then switches tactics to box in the king: 5 党g7! 党d4 6 党f6 党c4 7 党e5 党b3 8 党d4, box. Note that 2 党h8 was mandatory, else Black takes the opposition. Forcing h7 costs the opposition, so this position, but with the kingside shifted down one square, is a draw.

3.4 Damiano Defence

With the cappy on g2, after the opening 1 e4 2 \bigcirc c3 e5 3 \bigcirc f3 f6 4 \bigcirc xe5 fxe5 5 \bigcirc mh5+ \bigcirc e7 6 \bigcirc mxe5+ \bigcirc mf7 7 \bigcirc c4+ \bigcirc g6 8 \bigcirc mf5+ \bigcirc mh6 9 d4+ g5 10 h4 \bigcirc mg7 11 \bigcirc mf7+ \bigcirc mh6 12 \bigcirc xg5+ \bigcirc mxg5+ \bigcirc mxg5+ \bigcirc mxg5 we arrive at the following position:

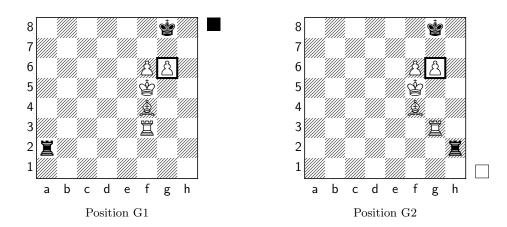


White has many ways to win, e.g., 14 $\Xi h5+$ &g4 15 $\Xi h4+$ &sh4 (or 15... &g5 16 $\centegf5+$ &sh4 17 g3#) <math>16 $\centegf9f5$ $\centegf2f6$ (mate in 6); or 14 f4+ $\centegf2f6$ f5+ $\centegf2f6$ \ce

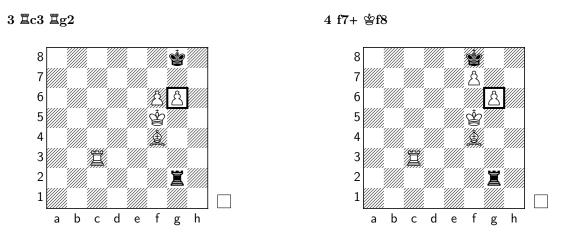
Other tempting lines allow Black to "escape." After 14 f4+ 曾g4 15 曾f2 包f6 16 奠e2+ 曾×f4 17 單h5 罩g8, Black escapes. After 14 e5 h5, Black escapes.

3.5 Almost a Win for White

Black is to move in Position G1 below. It is easy to see that if Black can trade his rook for the pawn, the game is drawn; if the cappy were on the fifth rank, White could mate, but it has been forced to the sixth rank for safety. After 1... **\(\begin{array}{c} 2 \) \(\begin{array}{c} 3 \) \(\begin{array}{c} 4 \) \(**

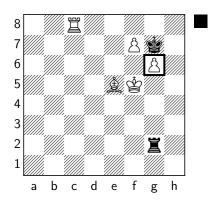


After **3 \(\) \(\) Ih7 4 \(\) C7 \(\) Ih5+**, we reach Position G3 (shown later). To see how White can lose, consider instead the following.

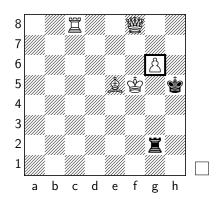


If instead 4... $\mathring{g}h8$ then 5 $\Xi h3+$ $\mathring{g}g7$ 6 &e5+ $\mathring{g}f8$ 7 $\Xi h8+$ $\mathring{g}e7$ 8 f8 \mathring{g} + wins for White.

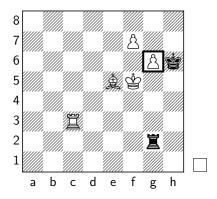
5 $\Xi c8+?$ \Leftrightarrow g7 6 & e5+



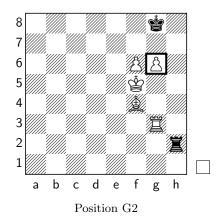
6... **含h6 7 f8豐+ 含h5** and Black wins.

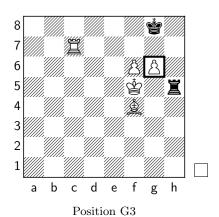


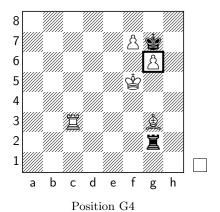
If instead 4... &g7 (or 4... &f8 5 &d6+ &g7) 5 &e5+ &f8 6 &g8+ &f8 7 f8 &f8 4 &f9 8 &f9 4 and White wins), then we arrive at the position below.

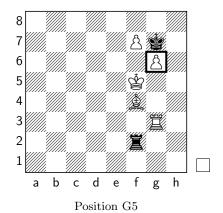


The obvious 6 f8 $\stackrel{\text{\tiny \'e}}{=}$ + only draws(!): 6... $\stackrel{\text{\tiny \'e}}{=}$ h5 7 $\stackrel{\text{\tiny \'e}}{=}$ g3 $\stackrel{\text{\tiny \'e}}{=}$ f2+ or 7 $\stackrel{\text{\tiny \'e}}{=}$ g3 $\stackrel{\text{\tiny \'e}}{=}$ xg3. Tries for White are 6 $\stackrel{\text{\tiny \'e}}{=}$ g3 $\stackrel{\text{\tiny \'e}}{=}$ g7 (Position G4) and 6 $\stackrel{\text{\tiny \'e}}{=}$ g3 $\stackrel{\text{\tiny \'e}}{=}$ f2+ forcing 7 $\stackrel{\text{\tiny \'e}}{=}$ f4+ $\stackrel{\text{\tiny \'e}}{=}$ g7 (Position G5).

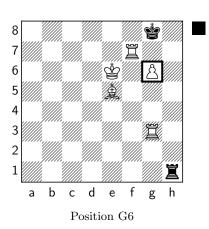


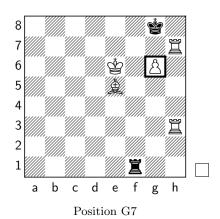






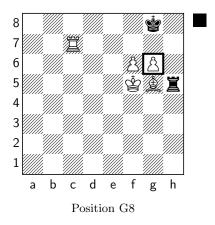
What is the value of Positions G2–G5? Subsequent positions can be complex. Starting from Position G2, 3 f7+ $$^{\circ}$ f8 4 $$^{\circ}$ e6 $$^{\circ}$ h7? (4... $$^{\circ}$ h6 draws) 5 $$^{\circ}$ d6+ $$^{\circ}$ g7 6 f8 $$^{\circ}$ $$^{\circ}$ h6 7 $$^{\circ}$ f7+ $$^{\circ}$ g8 draws (not 7... $$^{\circ}$ h8 8 $$^{\circ}$ e5+ $$^{\circ}$ g8 9 $$^{\circ}$ g7+ $$^{\circ}$ f8 10 $$^{\circ}$ gf3+ $$^{\circ}$ e8 11 $$^{\circ}$ e7+ $$^{\circ}$ d8 12 $$^{\circ}$ d3+ $$^{\circ}$ e8 13 $$^{\circ}$ gc7+ $$^{\circ}$ b8 14 $$^{\circ}$ h7+ when White wins with the swinging rook). If instead of 6... $$^{\circ}$ h6 Black tries 6... $$^{\circ}$ h1, then 7 $$^{\circ}$ f7+ $$^{\circ}$ g8 8 $$^{\circ}$ e5 yields Position G6 below.

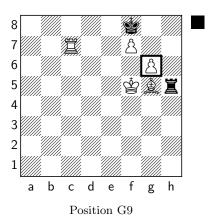


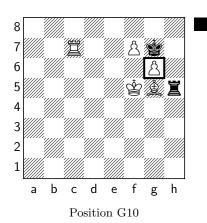


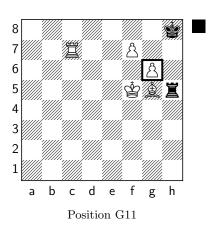
Black must vacate the h-file as 9 \(\begin{align*} \begin{align*}

Starting from Position G3, 5 兔g5 罩h1 almost loses to 6 f7+. Note 6... 曾g7 7 兔f6+ 曾h6 (7... 曾f8? 8 g7#) 8 f8豐+ 曾h5 9 豐e8+ wins for White. (If the rook on c7 were on c8, then after 9 豐e8+ 罩f1 10 曾e6 罩e1 11 兔e5 罩g1! Black draws.) Or 6... 曾f8 7 兔e7+ 曾g7 8 兔f6+ ditto. But 6... 曾h8! 7 罩c8+ 曾f7 8 兔e5+, etc. With White to move after 5 兔g5 曾f8 or 5 兔g5 曾h8, can White force a win with the bishop pinned?









The question is with Black to move, from which positions G8–G11 can Black safely move the rook? From G8 or G9, none; from G10, 1... \(\bar{\textsf{L}} \)h7; from G11, 1... \(\bar{\textsf{L}} \)h1, 1... \(\bar{\textsf{L}} \)h2, 1... \(\bar{\textsf{L}} \)h3.

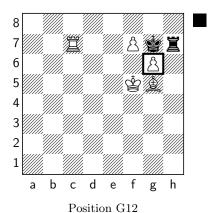
G8: If 1... Ξ h8 2 f7+ \r g7 3 \r g6+ \r g68 4 g7 \r . If 1... Ξ h1 2 f7+ \r g68 3 \r ge7+ \r g7 4 \r g6+ \r gh3 (4... \r g68 5 g7 \r) 5 f8 \r g+ \r gh5 6 \r ge8 Ξ c1+ 7 \r ge6 Ξ e1+ 8 \r ge5 Ξ g1 9 Ξ h7+ and White wins. Note that 3 Ξ c8+ instead of 3 \r ge7+ only draws.

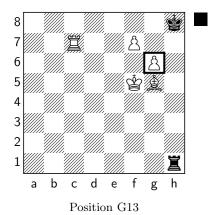
G9: If 1... $\mathbb{Z}h8$ then 2 $\mathbb{Z}c8+$ wins. If 1... $\mathbb{Z}h1$ then see G8 above. If 1... $\mathbb{Z}h7$ 2 $\mathbb{Z}c8+$ $\mathbb{E}g7$ 3 $\mathbb{Z}f6+$ $\mathbb{E}h6$ 4 $\mathbb{Z}h8$ $\mathbb{E}h5$ 5 $\mathbb{Z}g7$ and White wins.

G10: If 1... \(\begin{aligned} \begin{aligned} \alpha & \text{or } 1... \(\begin{aligned} \begin{aligned} \alpha & \text{or } 1... \(\begin{aligned} \beta & \text{or } 1... \(\beta & \text{or } 1... \) \(\begin{aligned} \beta & \text{or } 1... \(\begin{aligned} \beta & \text{o

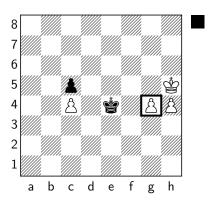
G11: If 1... Ξ h7 2 Ξ c8+ $\dot{\Xi}$ g7 3 $\dot{\Xi}$ f6+ then see G8 above. If 1... Ξ h6 then 2 Ξ c8+ wins. If 1... Ξ h1 then we obtain Position G13 below.

There appears to be no win for White from the initial position G1.





3.6 Can Black Win?



The position above presents unusual complications. Black to move can draw with 1... 當d4 2 當g6 當xc4 3 h5 當d3 4 h6 c4 5 h7 c3 6 h8豐 c2, since later, with the Black king on b1, 豐b3+ is answered by ... 當a1, a textbook maneuver. (*Editor's note:* 7 豐h6 threatening 8 豐c1 should win.) But can Black win?

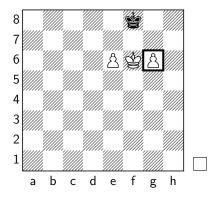
Instead, Black can try 1... 當f4 2 g5 當f5. Now White must lose the h-pawn or the cappy: 3 當h6 當g4 and if 4 h5 當f5 5 g6 當f6 6 當h7 當g5 7 h6 當f6 8 g7 當f7 9 當h8 當g6 10 h7 當f7 then Black wins. But White can draw if at move 4 he abandons the h-pawn: 4 當g6 當×h4 5 當f5 當g3 6 g6! Either 6...當f3 7 g7 or 6...當h4 7 當f4 or 6...當h3 7 當g5 is a draw. White has just enough cappy moves left to buy the opposition. If the c-pawns were on c5 and c6 then White could "spend" g7 early and draw with 3 g6 當f4 4 g7 當f5 5 當h6 當g4 6 當g6 當h4 7 當f6! (if 7...當h5 8 當f5 and if 7...當g4 8 當g6) as he seizes triangular opposition.

The Black try 1... 當f4 2 g5 當g3 only draws after 3 當g6 當×h4 4 當f5 當g3 5 g6 as above. But note that if the Kingside position is advanced one rank up the board, then the same maneuver wins for Black: 1... 當f5 2 g6 當g4 3 當g7 當×h5 4 當f6 當g4 5 g7 當f4 and Black, having the opposition, wins White's pawn no matter where on the c-file it is blockaded.

$3.7 \quad \text{Pawn} + \text{Cappy}$

When does a pawn plus the cappy win? The only cases of interest are Cf-h and Pb-g, as White can't mate with Ce or promote with Pa or Ph. Let the cappy and the pawn be on rank i, 1 < i < 7, separated by j files (j = 0 was P6 in Section 1.4). Let the kings be in opposition, between the C and P on ranks i - 1 and i + 1 with Black to move. Aside from P6, the only cases which win are j = 1, j < 6 or j = 2 or j = 3, j = 6.

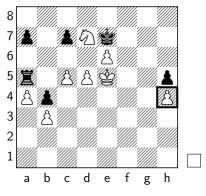
The surprises are: White to move doesn't help, and j=3, i=5 is a draw. The case j=1, i=6 is a draw as the position below is a draw with White to move; e.g. 1 \$\delta\$f5 \$\delta\$e7 2 \$\delta\$e8!, etc.



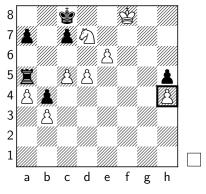
The case j = 3, i = 6 is a win for White as Black must approach the P from the 8th, and White can select the tempo, and so promote without moving the cappy.

3.8 When Queen vs. Rook May Not Draw

Consider Position H1 below, which is a win for White. Black's rook is hopelessly out of place. With his king on e7 or d8, 1... a6 loses to 2 心b8. The quick win is 1 常f5 常d8 2 常f6 常e8 3 常g6 常e7 4 常g7 常d8 5 常f8 常c8, leading to Position H2 below.



Position H1

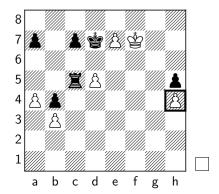


Position H2

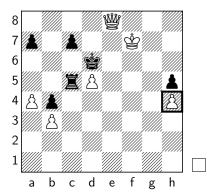
White now wins with 6 ②e5 罩xc5 7 e7 罩xd5 8 e8豐+ 罩d8 9 堂e7 罩xe8+ 10 堂xe8. Then the White king and knight win the a, b, c pawns and White promotes a pawn.

It might seem that 3 e7 當xd7 4 當f7 was a shorter route, but 4...罩xc5 may be a win for Black!

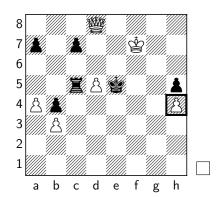
4 **�**f7 **罩**×c5



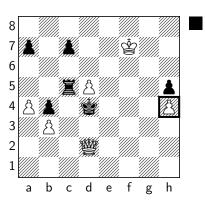
5 e8豐+ 曾d6



6 **७**d8+ **७**e5

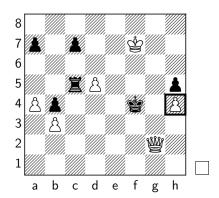


7 豐g5+ 當d4 8 豐d2+

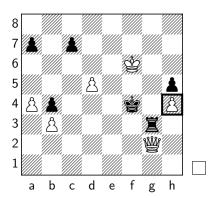


Better for White is 8 &e6, which probably draws. But 8... \blacksquare c3 still presents problems as the White pawns are weak.

8...堂e4 9 豐g2+ 堂f4

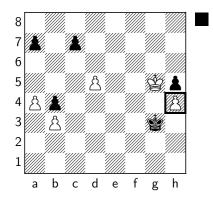


10 \$\ddotse\$6 \$\overline{\pi}\$c3 11 \$\display\$f6 \$\overline{\pi}\$g3

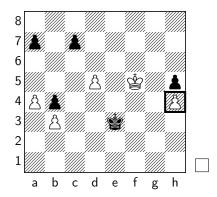


If now 12 h1 then 12...g4 and White does not have a perpetual check.

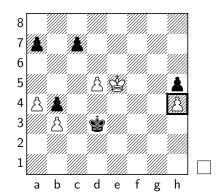
12 豐×g3+ 堂×g3 13 堂g5



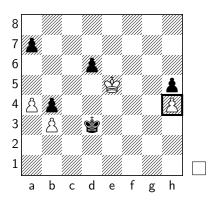
13... \$\ddot\delta f3 14 \ddot\delta f5 \ddot\delta e3



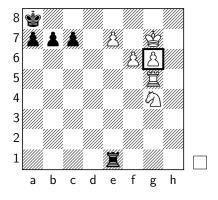
15 **\$e5 \$d3**



 $16 d6 c \times d6 + and Black wins.$

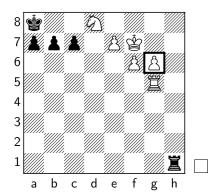


3.9 How Does White Win This Game?



How does White win this game? 1 \\$\\$f8 \\$\\$a1 2 f7 \\$\\$a6 only draws.

Idea 1: Masking the e-pawn with the knight doesn't seem to work. Suppose White maneuvers his knight to d8, and achieves something like the position below.



Now 1 e8豐 富h6 2 公xb7+ 含xb7 3 豐e4+ c6 is only a draw! Or 3 豐b5+ 含c8 4 豐a6+ 含d8 draws. Or 3 冨b5+ 含a6 draws.

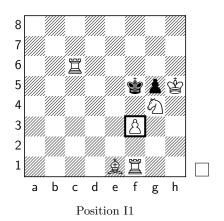
Idea 2: White can try to trade his pawn on e7 and his rook for Black's rook. 1 單h5 罩g1 2 罩h4 罩a1. But 3 f7? 罩a5 wins for Black, 3 罩h5 罩g1 repeats, and 3 ②e5 罩g1 4 罩g4 罩h1 stops f7.

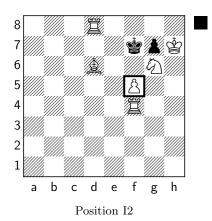
Idea 3: From the starting position, 1 **Ze5 Zg1 2 Ze4 Za1 3 f7 Za6 4 公f6** and **Zg4** wins quickly with e8公 then soon f8豐.

Idea 4: 1 f7 $\mathbb{Z} \times e7$ 2 $\mathbb{Q} \cdot f6$ $\mathbb{Z} \times f7 + 3 \mathbb{Q} \times f7$ wins by a slimmer margin.

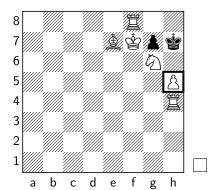
3.10 Mating with Double Check

Minimum material seems to be N, B, R, R, C versus P. With room to maneuver (cappy on ranks 3–5, files e or f), White mates by blockading the Black pawn on an adjacent file with the N on a color opposite that of the bishop, forces the pawn to advance to the N, places his king next to the pawn, and hems the Black king into two squares as in Postion I1 below. Then the mate is $1 \pm a5$ 4 + a6 4 +

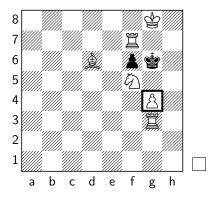




In Position I2, it takes a while to hem in the Black king. 1... 常f6 2 罩e8 常g5 3 罩e5 常h5 4 全c7 常g5 5 罩h4 常f6 6 罩g4 常f7 7 罩f4 常f6 8 全d8+ 常f7 9 罩e7+ 常f6 10 罩e6+ 常f7 11 ②e5+ 常f8 12 ②d7+ 常f7 13 罩e5 and mate next move. If 13...g5 then it's en passant, double check, cappy mate. Nice. The position can be shifted to put the cappy on any of the files c—f and ranks 2—5.



In the position on the left, $1 \triangleq d6 \triangleq h6 2 \triangleq f4+ \triangleq h7 3 \triangleq h8$ mates next move. The position can be shifted to put the cappy anywhere from h2-h5.

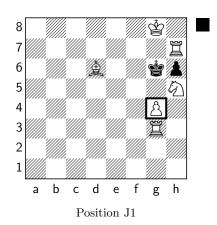


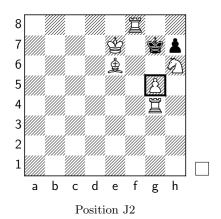
In the position on the left, we have 1 & c5 & g5 2 & e3 + & g6 3 & g7 f5 4 $g \times f5 #$ The position can be shifted to put the cappy anywhere from g2-g4.

The same idea works with the Black pawn on the h-file, as in Position J1 below. 1... \graphi g5 2 \graphi c7 \graphi h4 3 \graphi b6 \graphi g5 4 \graphi d8+ \graphi g6 5 \graphi g7 h5 6 \graphi s*

With the cappy on g5 and the Black pawn on h7, as in Position J2, we have $1 \, \text{$\underline{\circ}$} d7 \, \text{$\underline{\circ}$} g6 \, 2 \, \text{$\underline{\circ}$} c8$ $\text{$\underline{\circ}$} g7 \, 3 \, \text{$\underline{\circ}$} f5 \, \text{$\underline{\circ}$} h8 \, 4 \, \text{$\underline{\circ}$} b7 \, \text{$\underline{\circ}$} g7 \, 5 \, \text{$\underline{\circ}$} e4 \, \text{$\underline{\circ}$} h8 \, 6 \, \text{$\underline{\circ}$} f8 + \text{$\underline{\circ}$} g7 \, 7 \, \text{$\underline{\circ}$} f7$ and mate next move.

The case where the cappy is on g5 and the Black pawn is on f7 seems to require more material.





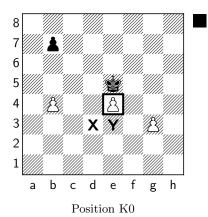
3.11 Pawn + Pawn + Cappy Versus Pawn

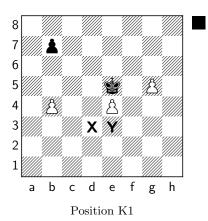
In this section, squares with letters X, Y, etc., are possible positions for the White king.

It would seem that in Position K0, White wins (*Editor's note:* in the original manuscript, there is no X on d3, but the analysis of Position K7 suggests that it should be there), even though to win he must promote one pawn without losing the other, as a single White piece plus a cappy on the e-file is a draw. It is easier to maneuver the White king behind the pawns than it is for the Black king to maneuver in front of the pawns. But a close look suggests the position is a draw.

We pose it as a three-pawn problem in which a pawn may not promote, and Black draws if he captures any pawn. Positions K0–K9 below are drawn, since the best White can do is reach another. Claim: in any of these positions, with White to move, 1 b5 b6 is always worse for White.

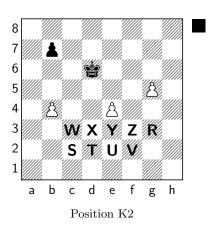
In Position K1, with the White king on X or Y, 1... \$\ddots d6\$ leads to Position K3 below.

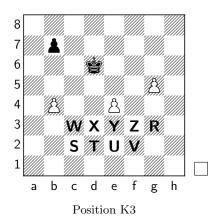




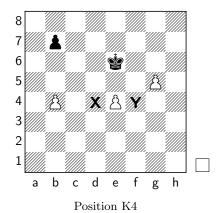
In Position K2, 1... \$\footnote{\mathbb{e}}\$ forces Position K1 (if the White king is on Z then White loses the pawn on b4).

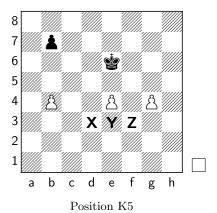
In Position K3, 1 \$\ddots c4\$ \$\ddots 6\$ forces Position K1, 1 \$\ddots d4\$ \$\ddots 6\$ yields Position K4 with the White king on X, 1 \$\ddots 6\$ yields Position K4 with the White king on Y, and other king moves yield Position K2.



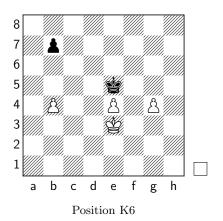


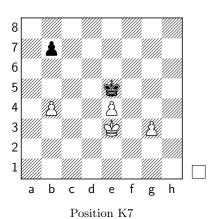
In Position K4, 1 e5 or 1 g6 loses a pawn, and after any king move, 1... \$\ddot\delta\$e5 forces Position K1. In Position K5, 1 \$\ddot\delta\$d4 \$\ddot\delta\$f6 or 1 \$\ddot\delta\$f4 \$\ddot\delta\$d6 forces 2 \$\ddot\delta\$a, and then 2... \$\ddot\delta\$e5 yields Position K6.

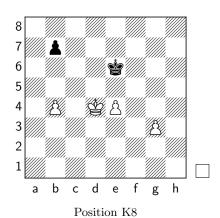


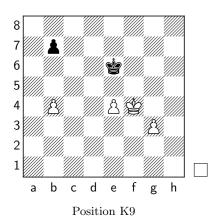


In Position K6, any White king move loses a pawn, and 1 g5 yields Position K1. In Position K7, 1 g4 \$\ddotse\$e6 yields Position K5, and 1 \$\ddotse\$d3 yields Position K0.



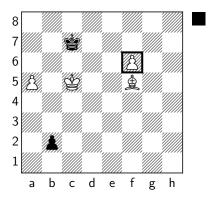






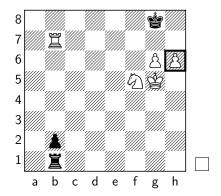
In Position K8, 1 e5 當f5 loses the g-pawn, and 1 g4 當f6 2 當e3 當e5 yields Position K6. In Position K9, 1 e5 當d5 loses the b-pawn, and 1 g4 當d6 2 當e3 當e5 yields Position K6. From Position K0, 1...當f6 2 當d4 當e6 yields Position K8, or 1...當f6 2 當f4 當e6 yields Position K9, or 1...當f6 2 當d4 當e6 yields Position K8. Draw.

3.12 How Does White Win?



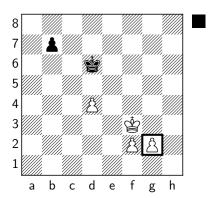
With White to move, 1 a6 seems to win as Black is in Zugzwang. But it's Black's move, and after 1... 常b7 2 &d3, what? 2... 常a7 3 常b5 常b7 4 &e4+ 常c7 5 常c5 常d7 6 常d5 常c7 7 常e6 常b8 8 常d6 常a7 9 常c5 常a6 10 常b4 常a7 11 常b5 常b8 12 常b6 常c8 13 &f5+ wins for White. And 2... 常c7 3 &e4 is a faster version of the above. Endgames like this aren't in the chess literature. Note that 2... 常c7 3 a6 常d7 3 &f5+ 常c7 is a draw, as both the cappy and the a-pawn are weak.

3.13 What Is the Outcome?



What is the outcome with White to move? 1 ②e7+ 堂h8 2 g7+ 堂h7 3 g8彙+ 堂h8 4 ②g6+ 堂×g8 5 h7 is mate. (So for example, if rook is on f7 not b7, then White wins.) 1 ②e7+ 堂f8 2 g7+ 堂e8 3 g8罩+ 堂f7 4 ②g6+ 堂e6 5 ②f4+ 堂d6 6 罩g6+ 堂c5 7 罩×b2 罩h1 8 ②h5 罩×h5+ is a draw. (Editor's note: In the original manuscript, 2... 堂e8? is given a question mark, but it is not clear why. The alternative 2... 堂f7 3 ②f5+ 堂e8 4 ②d6+ 堂d8 5 ②f7+ also seems to lead to a draw, because if Black tries to evade perpetual check with 5... 堂c8 6 g8豐+ 堂×b7 7 ②d8+ then White soon wins the rook and the game. Thanks to Noam Elkies for this analysis.)

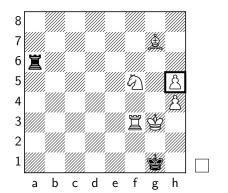
3.14 What Is the Outcome?

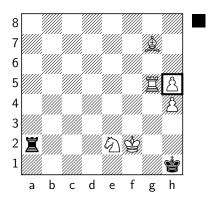


Black to move wins: 1... **\$d5** 2 **\$e3 \$c4** 3 **\$e4** b5 4 d5 b4 5 d6 b3 6 d7 b2 7 d8***** b1***** +.

3.15 What Is the Outcome?

In the position on the left below, it is White to move. What is the outcome? It appears White may have enough to force a position as on the right, which wins.



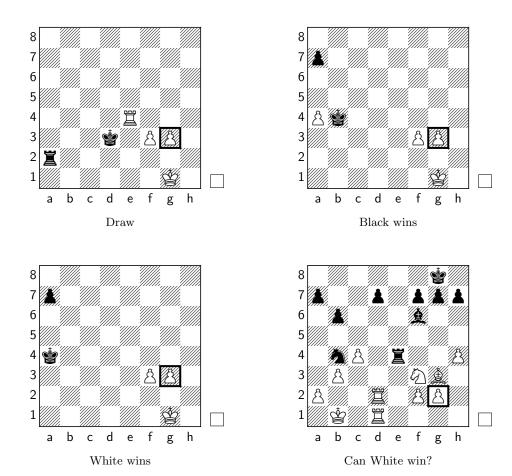


3.16 Can White Win?

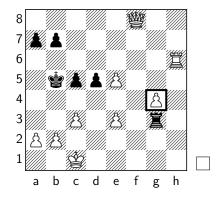
(*Editor's note:* In the first three diagrams below, in the original manuscript, both kings are black kings—an obvious typo. It is assumed here that the intent is for the White king to be on g1 in all three positions. Also, the original manuscript does not state whose turn it is to move.)

It once occurred to the Cappy players that White had earlier made an illegal move (possibly the best move for that position!). The net result has been that Black on occasion uses extra time checking that the last White move was kosher.

Found by Jack Rogers 7/6/97 on a Stash Earl Grey Tea wrapper: "There are few hours in life more agreeable than the hour dedicated to the ceremony known as afternoon tea." Henry James.



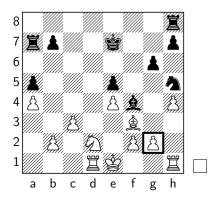
3.17 White Almost Wins



- 1 豐e8+ almost wins, but Black has a narrow path to a draw. 1... 堂c4 2 豐a4+ 堂d3 3 豐d1+ and:
 - 3... \$\displace{c} c4 4 b3 + \$\displace{b} b5 5 a4 + \$\displace{c} a5 6 b4 + cxb4 7 cxb4 + \$\displace{c} xb4 8 \$\displace{e} e1 + and White wins.
 - 3... $\dot{g} \times e3$ 4 $\ddot{g}e1+ \dot{g}f3$ 5 $\ddot{g} \times g3+ \dot{g} \times g3$ 6 $\Xi g6$ and White wins.
 - 3... \$\ddot e4 4 \ddot h1+ \$\ddot d3 5 \ddot f1+ \$\ddot e4 6 \ddot f4+ and White wins.

The drawing line is 1... **\$\delta\$a5 2 b4+** cxb4 3 cxb4+ **\$\delta\$xb4 4 \$\delta\$f8+ \$\delta\$b5 5 \$\delta\$e8+ \$\delta\$a5 6 \$\delta\$d8+ \$\delta\$a4 7 \$\delta\$d7+ \$\delta\$a3 8 \$\delta\$e7+ \$\delta\$a4 9 \$\delta\$d7+ \$\delta\$a3 10 \$\delta\$d6+ \$\delta\$a4 11 \$\delta\$d7+ \$\delta\$a3** draw.

3.18 A Typical Escape by White



(Editor's Note: Thanks to Noam Elkies for assistance in correcting some typos in the original manuscript.) After 1 ②f1, Black wins quickly with 1... 罩g8, threatening both 2... 逾d2+ and 2... 逾h2. Instead, he took the direct approach with 1... 逾d2+ 2 罩×d2 ②f4 3 g3 ②h5 4 逾×h5 g×h5 5 罩d5 鸷e6 6 f4 e×f4 7 g×f4 罩g8 8 ②e3 罩aa8 9 鸷f2 罩ac8 10 罩hd1 罩cf8 11 罩e5+ 鸷f7 12 罩f5+ 鸷g7 13 罩dd5 鸷h8 14 罩×f8 罩×f8 15 罩f5 罩d8 16 ②d5 罩g8 17 ②f6 罩c8 18 罩×h5 罩c7 19 罩×a5 鸷g7 20 ②h5+ 鸷g6 21 鸷f3 and Black lost on time.

3.19 GS-DR, 6/11/91. Cappy on g2

Black's pieces get snarled up.

1 e4 2 d4 e5 3 d×e5 公c6 4 魚f4 公ge7 5 魚g3 公g6 6 公f3 魚c5 7 h4 O-O 8 h5 公ge7 9 魚c4 d6 10 e×d6 c×d6 11 公bd2 魚g4 12 c3 公e5 13 魚e2 公7c6 14 公×e5 公×e5 15 魚×g4 公d3+16 常f1 豐f6 17 豐f3 公×b2 18 豐×f6 g×f6 19 魚e2 公a4 20 罩c1 常h8 21 魚h4 h6 22 魚×f6+常h7 23 魚d3 罩ae8 24 罩h3 罩e6 25 e5+ 常g8 26 公e4 d×e5 27 罩g3+ 常h7 28 公×c5+ e4 29 公×e6 f×e6 30 罩g7+ 常h8 31 罩f7+ 常g8 32 罩xf8+ 常xf8 and White wins.

3.20 GS-AR, 4/15/98. Cappy on g2

1 e4 2 h4 g5 3 h×g5 \bigcirc f6 4 e5 \bigcirc d5 5 d4 h6 6 g6 f×g6 7 \bigcirc d3 \square g8 8 \square g4 h5 9 \square xh5 gxh5 10 \square xg8 \bigcirc b4 11 \bigcirc f3 b6 12 \bigcirc c3 \bigcirc b7 13 \bigcirc e4 \bigcirc 8c6 14 \bigcirc h6 \bigcirc xd3+ 15 cxd3 a5 16 \bigcirc xf8 \square a6 17 \square h8 \square a8 18 \bigcirc h6+ \square cf7 19 \bigcirc fg5+ \square cg6 20 \square g7+ \square cf5 21 \square cf7+ \square cg4 22 \square cf3+ \square ch4 23 g3 \square

3.21 GS-AR, 9/11/??, early game. Cappy on g2

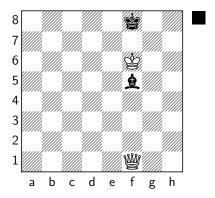
1 d4 2 \triangle c3 d5 3 h4 h5 4 \triangle f3 \triangle c6 5 \triangle f4 e6 6 e3 \triangle d6 7 \triangle e5 f6 8 \triangle g6 Ξ h7 9 \triangle e2 \triangle xf4 10 exf4 \triangle ce7 11 \triangle xh5 Ξ xh5 12 Ξ xh5 \triangle xg6 13 Ξ xg6+ Ξ f8 14 O-O-O \triangle e7 15 Ξ h7 Ξ e8 16 h5 e5 17 fxe5 Δ f5 18 Ξ h8+ Δ g8 19 Ξ de1 Ξ f7 20 exf6 Ξ xf6 21 f4 Δ e4 22 Δ xe4 Ξ xf4+ 23 Δ d2 Ξ e8 24 Ξ ef1 Ξ e1+ 25 Ξ xe1 Ξ f2 26 Ξ hf1 c6 27 Ξ xg8+ Ξ xg8 28 Ξ xf2 and White wins.

Chapter 4

Bonus Material

(*Editor's note:* The material here was included in the original manuscript, but has nothing to do with the capped pawn condition.)

4.1 Single Column Problem



Find a Black move which enables a White mate-in-2. Solution: 1... \(\delta h7 \) 2 \(\mathbb{\mathbb{m}} h3\). (D. Monn 2005)

4.2 Keep Your King on the Pink Squares

Make a house with your pawns and your king will be safe inside. Is that a free pawn? 1/16/98, PL-GS (parenthetical notes by the editor).

1 e4 c5 2 魚c4 ②c6 3 b3 e6 4 魚b2 ②f6 5 e5 ②d5 6 豐f3 ②de7 7 ②h3 ②g6 8 豐g3 豐c7 9 f4 d6 10 exd6 魚xd6 11 O-O a6 12 魚xg7 罩g8 13 魚c3? (The more active 13 魚f6 was better. On c3, the bishop interferes with the development of the knight.) 13...b5 14 魚d3 魚b7 15 魚xg6 (It was more prudent to try to block the h1-a8 diagonal with 15 豐e3 and 16 魚e4.) 15...罩xg6 16 豐h4 ②e7 17 罩f2 豐c6 18 豐xh7 (Blocking the g-file with 18 ②g5 was a better try.) 18...O-O-O (Black could also play 18...罩xg2+ immediately.) 19 豐xf7 罩xg2+ 20 含f1 罩xf2+ 21 含xf2 豐g2+ 22 含e3 ②d5+ (22...豐f3 was mate in one but it scarcely matters.) 23 含d3 ②xf4+ 24 含e3 豐e2#.