

MAY 1992

#### NAMES AND NUMBERS

The question how many composers are represented in EG's pages is easily asked but less easily answered. For example, are Komai and Comay two composers or one? Some account of EG's spelling of names, possible because one person has been responsible for a quarter of a century (a situation which may never recur) may therefore be useful. The principle we consciously tried to follow is to repeat the native spelling where possible, and otherwise to approximate in educated English to the pronunciation while bearing in mind both traditional spellings and the presence of a majority of non-English readers of EG. We have learned 'on the job' and have tried to be consistent. Of course we failed. Alphabets, syllable stress patterns (including their absence), pseudo-similarities, strange diacritics, and linguistic ignorance have all contributed to our failure. A challenge which thankfully I never encountered was the spelling of the name of a Chinese composer, because up to now there have been none. My successors will, I hope, have to sort that out!

Comay (preferred) = Komai, Komay  
Costeff (preferred) = Kosteff  
Galushko = Goloshko, etc. (Volgograd composer)  
Garayazli supersedes earlier variations

Janosi (now preferred) = Ianosi  
Joitsa = Joita  
Kondratev (preferred) = Kondratiev, Kondratyev  
Olympiev = Olimpiev  
Kozirev = Kozyrev  
Pogosityants (preferred) = Pogosityants  
Senkus is correct (Syankus, Sekus occur in other sources)

#### MISCELLANY

Genrikh Kasparyan is the father of Sergei Kasparyan. Likewise there are father and son Manyakhin. The several Kuznetsov's and Ivanov/Iwanow's must be kept apart. There is a second contemporary Polish composer named Andrzej Lewandowski in addition to the well known master from Torun. Gul(y)a(y)ev and Grin are one and the same. Afek was Kopelovich. Carvajal Aliaga (EG36.2040) is the Carvajal of EG89.6586, while for similar Hispanic reasons Javier Rodriguez is J.R.Ibran. Benko and Benko are interchangeable, but Benno is not. Belyavsky and Gurgenedze the soviet composers are not the soviet otb IGMs. There are (or have been) several Kovalenko's, two Vlasenko's and Novikov's, while the New Zealander Emil Melnichenko must not be confused with soviet namesakes. Gherman Umnov is not the late Evgeny Umnov, while EG89.6580 is by a third Umnov. Quite apart from the foregoing are

typos, that is, typographical or proof-correcting errors. On balance the spelling in a solution is more reliable than that above a diagram. For example 'Blinka' (EG96.7279), 'Plinka' (EG94 p452) and 'Mlinka' (EG92.6822) are all to be interpreted as Hlinka. These may be 'obvious' corrections, at least to regular readers, but human history and common experience attest that the obvious is often wrong.

Magazines may also confuse. From Slovakia come PAT A MAT (Bratislava) and MAT-PAT (Martin), both of them composition magazines. It does not help that the former's distinguishing motif comprises a 5-letter monogram, namely a vertical MAT crossing a horizontal PAT. If possible, one looks to see how a magazine refers to itself.

---

#### TWO RUSSIAN ENIGMAS

Why did the Russians apparently never use their own alphabet to denote the chessboard files? Their very first chess books (by Ivan Butrimov in 1821 and Alexander Petrov in 1824) adopted the western a-h system. This is surely all the odder, given that the Russian alphabet has no letter 'h' - whence Gitler, Gerbstman, Giskot for Hitler, Herbstman and Heathcote. Subsequently the usage was adopted by the first chess magazine *Shakhmatny listok* (edited by Viktor Mikhailov from 1859 to 1863, and by Mikhail Chigorin from 1876 to 1891) and it has never wavered. The chess historian Dr Isaac Linder of Moscow (in a letter of 16iv90) has kindly traced the foregoing basic facts. So we know some of the who, what, where and when. We still want to know why! There is even the question of the extent to which the Russian alphabet was ever

used in print or in the hand recording of positions and game scores. The practice is a great convenience for westerners, but western ease of use is not likely to have been the reason for its adoption! One reasonable possibility is that the impetus was technological rather than caissic, a consequence, maybe, of the import of ready-made chess diagram printing techniques from, say, Germany - one thinks of the very old tradition of letters along the bottom and top of the board and numbers down the sides.

Russian took over 'mittelspiel' from German, but 'debyut' from French. Now 'etyud' is French, and again we want to know why - as well as the basic facts.

As one starting-point there is the remarkable fact that the Russian dictionary Dal' of the year 1902 includes the chess meaning of

'etyud', while even the largest western dictionaries we have consulted still do not today. Dr Linder helps with facts relating to the first Russians who can be called study composers: A.Petrov, Karl A.Jaenisch and Ilya Shuwmov. *Découvertes sur le cavalier* (Jaenisch) appeared in French in St Petersburg in 1837, and the same author published studies in his chess column in *Sankt Peterburgskie vedemosti* in 1856. Shumov composed studies in the 1860's, some of them published in *La Stratégie* in France. It has yet to be shown, however, that the word etyud was applied unambiguously in any of these instances.

Preliminary research has taken us just this far. Clearly here is just the subject for a thesis by some diligent researcher with linguistic skills and the funds to commute between the Dutch Royal Library in the Hague and the two major libraries of the USSR (the Lenin Library in Moscow and the Saltykov-Schedrin Library in St. Petersburg). We are serious.

ERRATA: a postscript to  
**EG 102.1** (pp933-935)  
**EG 32.1851** composer is V.N.Dolgov  
**EG 93**: the article by Arkady Khait  
(pp437-440)  
KH1 alc7 **1036.11** c4c5a4g3.g4  
3/5- = .  
KH10 bPe3 (not bPe2)  
KH12 2.bSd6  
KH15 h8a6 **3012** f5h5a2c8 4/2 = .  
KH20 1.cSe2 + .  
KH21 G.A.Nadareishvili  
c6a8 **3002** f4a6d6 3/2 = .  
1.Sc7 + Ka7 2.cSb5 + /i Ka6 3.Sc7 +  
Ka5 4.Sb7 + Ka4 5.Sc5 + Ka3  
6.Sb5 + Ka2 7.Sc3 + Ka1 8.S5a4  
(Sb3 + ? Kb2;) Qe5 9.Kb6 Qd6 +  
10.Kb5 draw.  
i) 2.dSb5 + ? Kb8 3.Sa6 + Kc8  
4.Sd6 + Kd8 wins.  
KH29 hlal **0016.21** h2c2f3.b6g5b3  
4/4 + .  
KH30 5.fSd6.

**EG 102.1 'The GBR class 0116** end-  
game' (pp865-866)

1. The essential indication (of a computer source) \*C\* was omitted.
2. Lewis B.Stiller, a 25-year-old graduate of Johns Hopkins University, Baltimore, was greatly assisted by Noam Elkies of the Department of Mathematics, Harvard University. Our apologies to both gentlemen for this omission. The CM-2 *Connection Machine* was located at Los Alamos and used remotely. Stiller and Elkies have not yet actually met face-to-face! [*Thinking Machines Corporation* have recently announced a CM-5!!!]
3. A short article in the November 1991 *SCIENTIFIC AMERICAN* has led to spin-off newspaper publicity including a front-page item in the London *TIMES* (30x91) headed 'At last - white to win in 100 billion moves'.

EG

*102.1*

p859 The Troitzky 3rd Prize diagram (d6/g1) should have wPe5 (not wPe6), and the applicable solution says 'second', despite being printed as third on the page.

p874 col.1 read: The book is in English so the content is more accessible than the Russian 'A-Z' reviewed above, though whether the volume is more accessible is an interesting question: the Russian edition size contrasts with the few hundred of the Dutch.

p935 col.2 (top) read: EG97.9394 ....  
W also wins if dark wB can be exchanged with check, allowing g2-g3, when wK marches to h6 to win easily.

SNIPPETS

1. A posthumous paper by Selman on reciprocal stalemate has been edited by Jan van Reek and published (in English) in the ARVES series.
2. A long and wonderful collection of Jan Marwitz' studies has appeared in the ARVES series. They are deeply commented and annotated by the composer himself. In Dutch.
3. Jan van Reek's comprehensive *History of Study Composition in the Netherlands* has been completed, sponsors have been found, and publication is imminent. This is in English.

4. The composer of EG 97.7391 is a senior Argentinian otb master.

5. \*C\* Ken Thompson's *BELLE* (a complex amalgam of computer hardware and software) successfully solved 9 out of 10 studies in the EG 63 article (1981).

6. For the record. Volume I of EG (EG 1-16) consisted of 524 pages. Volume VI (EG 83-102) has nearly a thousand.

7. A consolidated index to EG 1-102 is not ruled out, but it is not a commitment, least of all by AJR.

8. For the record, Volume I of EG (ie, EG1-16) consisted of 524 pages. Volume VI (EG83-102.2) has nearly a thousand.

9. A book 'A to Z of Studies' is contracted for publication. As the publisher is Maxwell Macmillan, we must keep our fingers crossed. Author/compiler: AJR.

10. EG 103 and EG 104 should be with subscribers before EG 102.2. Most awards were prepared by AJR, diagrams prepared by Bas de Heer, and everything else done by Stakhanovite (if one may still use the word as a complement) stand-in editor Jan van Reek. Full steam ahead!

11. Theo van Spijk. EG's printer since EG 3, had a four-fold heart bypass operation in Aug. '91, after two heart attacks while on holiday with his family in Spain. Aged 58, Theo is recovering well. Our sympathy and support reach out to him, to his wife Diny and his son Pascal.

12. \*C\* All of Henri Rinck's claims to have discovered new draws (not based on the Lolli position) in the GBR class 1060 are erroneous. (See '1414' passim.)

13. Judged by Gh.Umnov, the 10th individual championship of 'Russia' (ie, the Russian Federation, or RSFSR) was won by A.Maksimovskikh with 38 points ahead of V.Kozirev, also 38. Next in order: Kopnin, Anufriev, Gromov, Rummyantsev,

Makletsov, Arestov, Osintsev, Ryabinin, Malyshev, Migunov, Selivanov and Sidorov. These placings in the last-ever such soviet championship are 'final'.

14. *Shakhmatny Bulletin* is now replaced by *Ekspress-Shakhmaty*; *Ceskoslovensky Sach* has breathed its last, no doubt to be replaced.

15. Computer specialist Aleksey Sochniev is now working in South Africa, probably temporarily.

16. The British Chess Federation *Year Book* 1991-92 (in general a unique mine of facts about the contemporary British chess scene) reports on the 1990 Benidorm PCCC and WCSC meeting, but re-locates the whole event to Basildon (a small town in the county of Essex)!!! In 1992 Britain is supposed to know about Europe!

---

XXXIV PCCC Meeting (WCSC, etc.) Rotterdam 3-10.8 '91.

- studies-related report -

1. New holder of title of FIDE judge: Vladimir Kos (Czechoslovakia).

2. A new applicant for the title of FIDE judge must now submit six awards, two made outside his homeland.

3. Studies Sub-Committee

3.1 Study EG

92.6858 was chosen (by the above sub-committee using a system of

votes) as 'study of the year' for 1986, just as one of its composers, Maksimovskikh (the other was Dolgov), won the soviet championship - as it happens, the very last one! At the PCCC banquet the soviet solving team expressed shock at this award, alleging the study to be known to be unsound. [Comment: not only had nobody told *us*, but the Georgians clearly were unaware likewise. Typical poor communication, which we must work in this new world of the Commonwealth of Independent States to improve!] The study (1st Pr, Troitzky '120' MT) is not included in the recent book selecting Maksimovskikh's best studies.

a7a1

**0440.12**

g2h6f1a4.f6d6h7 4/5 + . 1.f7 Rf6  
 2.Bc4 Bb5 (else Ra2 + ) 3.Bb3/i Bd3/  
 ii 4.Rg8 Bc2 5.Be6 Bf5 6.Rg1 + Bb1  
 (Kb2; Rf1) 7.Kb6/iii Kb2 8.Rg8 Bf5  
 9.Rg2 + /iv Bc2 10.Kc7 Kc3 11.Rg8  
 Bf5 12.Rg3 + Bd3 13.Kxd6 wins. i)  
 3.Rg1 + ? Kb2 4.Rf1 Rxf7 + draws.  
 ii) For Bg6. If d5 4.Bxd5 Bc6  
 5.Ra2 + and 6.Ra6. iii) See (iv). As  
 regards the alleged flaw, Colin  
 Crouch (at the i92 CESC) proposed  
 7.Bc4, threatening 8.Rf1, when d5  
 8.Bxd5, seems forced and the grandiose  
 artistic intention may well be  
 no more than a mirage. But we  
 remain unsure. iv) With wKb7, now  
 Kc3 10.Rf2? Be4 + . With wKb8,  
 now Kc3 10.Rf2 Bxe6 11.Rxf6 Bxf7  
 12.Rxf7 d5, drawing.

3.2 A procedure for voting for a study for the year 1988 was agreed.

3.3 A set of guidelines for organising formal international study tournaments was adopted as a discussion document.

4. Among the mini-lectures delivered to an ARVES get-together held in a caf some distance from the Inntel Hotel (PCCC venue), and attended by nearly 50 enthusiasts, IGM John

Nunn demonstrated how he has extracted studies from 5-man databases (using a ChessBase interface). The very interesting questions are: who/what has composed them, how ought they to be described, and how should judges treat them if entered for a tourney (this is happening!)?

5. The Match: *USSR vs. Rot W* still hangs fire. The Moscow and Tbilisi judges have so far failed to submit their ranking lists while the London judges (Nunn and Roycroft) did so in June 1991.

6. WCSC. After the studies solving round was complete it was found that all three studies were defective. The round was then cancelled and the championship (convincingly won by the USSR) decided on problem-solving alone.

7. The *FIDE Album 1983-85* should be out 'any day now'. Just like EG.

8. No one from ARVES was present at Rotterdam to accept EG subscriptions for 1992, etc. We trust that this public relations disaster will not be repeated at any future PCCC meeting.

9. The XXXV PCCC meeting will be held in Bonn (Germany) 22-29VII192.

---

#### *Roll of Honour*

+ Norman LITTLEWOOD  
 England 31 I 33-29v89 The versatile composer member of the Littlewood chess clan, but also a formidable challenger for the British Championship.

+ Gia Anton NADAREISHVILI  
 Georgia 22IX21-3x91. At least he has been spared the sight of his land being torn apart.

+ Gregor GRZEBAN (Bagdasarian) Poland 28 VIII02-21x91. Veteran of Piran 1958 + Osmo Ilmari KAILA Finland 11v16-3 VII91 + Aleksey Grigorevich KOPNIN Russia 17 XII 18-17 VI 91 A remarkably prolific, tenacious and inventive soviet composer-analyst living in highly polluted Chelyabinsk, Kopnin will be sorely missed.

EG's pages have seen many of his studies, and four significant articles. See EG 58 on *Alternating Blockade*; EG 70 on GBR class **0107**; EG 74 on GBR class **0134**; and EG 88 on GBR class **0310.01**.

---

OK: 22i92 AJR  
QN vs RR max win in 153 (per Elkie's xi91)

\*C\* GBR class **1601** - the longest win.

Another 6-man endgame, with claims to being the strangest yet. At several points both attacker and defender indulge in what looks like tempo-play! This output is due yet again to Lewis Stiller and Noam Elkie's working on a *The Connection Machine*.

c6c1 **1601** h2a6f4h7 3/3 WTM (in check).

1.Kc6-d5 Ra6-a5 + 2.Kd5-e6 Rf4-e4 + 3.Ke6-f7 Ra5-a7 + 4.Kf7-g6 Ra7-a6 + 5.Kg6-f5 Re4-c4 6.Qh2-g1 + (Qh2-h1 +) Kc1-b2 (Kc1-c2) 7.Qg1-f2 + (Qg1-g2 +) Kb2-a3 (Kb2-b3) 8.Qf2-f3 + Ka3-b4 (Ka3-a4) 9.Qf3-b7 + Kb4-a5 10.Qb7-d5 + Ka5-b4

11.Qd5-d2 + Kb4-b5 12.Qd2-b2 + Rc4-b4 13.Qb2-e5 + Kb5-a4 14.Qe5-e8 + Ka4-a3 15.Qe8-e7 Ra6-a5 + 16.Kf5-g6 (Kf5-f6) Ra5-a6 + 17.Kg6-g7 Ka3-b3 18.Sh7-f8 Rb4-b6 19.Sf8-d7 Rb6-g6 + 20.Kg7-f7 Rg6-h6

21.Qe7-e3 + Kb3-c2 22.Qe3-c5 + (Qe3-e4 +) Kc2-b3 23.Qc5-d4 Kb3-c2 24.Kf7-e8 Ra6-e6 + 25.Ke8-d8 Re6-d6 26.Qd4-e3 Rh6-g6 27.Kd8-c7 (Kd8-c8 Qe3-f2 + Qe3-e4 +) Rd6-c6 + 28.Kc7-b7 Rc6-e6 29.Qe3-f2 + Kc2-c3 30.Kb7-b8 (Qf2-f4) Rg6-h6

31.Qf2-f4 Kc3-c2 32.Qf4-c4 + Kc2-d2 33.Sd7-c5 Re6-b6 + 34.Kb8-a7 Rb6-g6 35.Qc4-d3 + (Qc4-d4 +) Kd2-c1 36.Qd3-c3 + Kc1-d1 37.Ka7-b8 (Ka7-a8) Rg6-b6 + 38.Kb8-a8 Rb6-g6 39.Qc3-b2 Rg6-f6 40.Qb2-d4 + (Qb2-b3 + Qb2-b1 +) Kd1-e2 (Kd1-c2)

41.Qd4-d3 + Ke2-e1 42.Qd2-e3 + Kel-d1 43.Sc5-d7 Rf6-e6 44.Qe3-f2 Re6-e8 + (Re6-c6 Rh6-h8 +) 45.Ka8-b7 (Ka8-a7) Re8-e6 46.Kb7-b8 Re6-e8 + (Rh6-h8 +) 47.Kb8-c7 Re8-e6 48.Qf2-g2 Re6-g6 49.Qg2-b2 Rg6-a6 50.Kc7-b8 (Kc7-c8) Ra6-g6

51.Kb8-b7 Kd1-e1 52.Kb7-c8 Rg6-g8 + 53.Kc8-c7 Rg8-g6 54.Kc7-d8 Rg6-a6 55.Qb2-c2 Ra6-d6 56.Qc2-c1 + Kel-e2 57.Qc1-f4 Ke2-d1 58.Kd8-e8 Rd6-e6 + 59.Ke8-f8 Kd1-c2 60.Qf4-b4 Rh6-h8 +

61.Kf8-g7 Rh8-h6 62.Sd7-e5 Re6-f6 63.Kg7-g8 Rf6-d6 64.Se5-g4 Rh6-g6 + 65.Kg8-f7 Kc2-c1 66.Qb4-b3 Rd6-b6 67.Qb3-c3 + Kc1-b1 68.Sg4-e5 Rg6-h6 69.Qc3-e1 + Kb1-a2 70.Qe1-f2 + Ka2-b3 (Ka2-b1 Ka2-a1)

71.Qf2-f3 + Kb3-a2 (Kb3-b4) 72.Qf3-g2 + Ka2-b3 73.Qg2-d5 + Kb3-b4 74.Qd5-d4 + Kb4-b5 75.Qd4-c4 + Kb5-a5 76.Qc4-a2 +

(Qc4-c3 +) Ka5-b5 77.Qa2-b3 +  
(Qa2-e2 +) Kb5-a6 78.Qb3-a4 +  
Ka6-b7 79.Se5-d7 Rb6-c6 80.Qa4-d4  
Kb7-c7

81.Sd7-c5 Rc6-g6 82.Qd4-d5 Kc7-b6  
83.Qd5-c4 Rg6-f6 + 84.Kf7-e8 Rf6-  
d6 85.Ke8-e7 Rd6-g6 86.Sc5-d7 +  
Kb6-a5 87.Qc4-a2 + Ka5-b4  
88.Qa2-b2 + Kb4-a4 89.Sd7-c5 +  
Ka4-a5 90.Qb2-e5 Ka5-b4

91.Sc5-d3 + Kb4-c4 92.Qe5-e4 +  
Kc4-b3 93.Qe4-b4 + Kb3-c2  
94.Qb4-c4 + Kc2-d2 95.Sd3-e5 Rg6-  
a6 96.Qc4-c5 Rh6-e6 + 97.Ke7-f7  
Kd2-e2 98.Qc5-c4 + Ke2-e3 99.Qc4-  
h4 (Qc4-b4) Re6-f6 + 100.Kf7-g8  
Rf6-e6

101.Qh4-b4 Ra6-a8 + (Re6-e8 +)  
102.Kg8-f7 Ra8-e8 103.Qb4-c3 +  
Ke3-f2 (Ke3-e2) 104.Qc3-d2 + (Qc3-  
c2 +) Kf2-f1 105.Qd2-d1 + Kf1-f2  
106.Se5-g4 + Kf2-g2 107.Qd1-c2 +  
(Qd1-e2 + Qd1-d5 + Sg4-f6) Kg2-f3  
108.Sg4-f6 Re8-e7 + 109.Kf7-g6 Re6-  
e5 110.Qc2-d3 + Kf3-g2

111.Sf6-d5 Re7-e6 + 112.Kg6-f7 Re6-  
e8 113.Sd5-f4 + Kg2-f2 114.Sf4-h3 +  
(Kf7-g6) Kf2-e1 115.Sh3-g5 Re5-e2  
116.Qd3-c4 (Qd3-c3 +) Re2-e3 (Re8-  
e3) 117.Qc4-d4 Ke1-e2 118.Kf7-g7  
Re3-g3 119.Qd4-b2 + (Qd4-c4 +)  
Ke2-e1 120.Qb2-b4 + Ke1-f2

121.Kg7-f6 Rg3-d3 122.Sg5-e4 +  
Kf2-f3 123.Se4-d6 Re8-f8 + 124.Sd6-  
f7 Rd3-d8 125.Kf6-g5 Rf8-g8 +  
126.Kg5-h4 Rd8-a8 127.Qb4-d2  
(Qb4-e1) Kf3-e4 128.Sf7-g5 + Ke4-e5  
129.Qd2-e3 + (Qd2-c3 +) Ke5-d5  
130.Qe3-d3 + Kd5-c5

131.Sg5-e4 + Kc5-b4 132.Qd3-c3 +  
Kb4-a4 133.Qc3-b2 Rg8-h8 +  
134.Kh4-g4 Ra8-b8 135.Se4-c3 +  
Ka4-a5 136.Qb2-a3 + Ka5-b6  
137.Sc3-d5 + Kb6-c6 138.Sd5-e7 +  
Kc6-b7 (Kc6-b5 Kc6-b6) 139.Qa4-

b4 + Kb7-a6 140.Qb4-a4 + Ka6-b6

141.Qa4-c4 Rh8-f8 (Rh8-d8)  
142.Qc4-c6 + Kb6-a7 (Kb6-a5)  
143.Qc6-c5 + Ka7-a6 144.Se7-d5  
Rf8-g8 + 145.Kg4-f5 Rb8-f8 + (Rg8-  
f8 +) 146.Kf5-e4 Rf8-b8 147.Qc5-  
a3 + Ka6-b7 (Ka6-b5) 148.Qa3-b4 +  
(Qa3-b3 +) Kb7-c6 (Kb7-a6)  
149.Qb4-c4 + Kc6-b7 150.Qc4-b5 +  
Kb7-c8

151.Qb5-c6 + (Qb5-a6 + Qb5-c5 +  
Sd5-e7 +) Kc8-d8 152.Qc6-c7 +  
(Qc6-d6 +) Kd8-e8 153.Qe7 mate  
(Qxc8 +). The accepted 'conversion  
metric' algorithm allocates no priority  
between a checkmating move and a  
winning capture move when each is  
equi-optimal. If there is a forced  
mate in 3 but a forced winning  
capture in 2, the latter is preferred  
unless the alternative 'metric', the  
'checkmate metric', is followed.  
Computers handle either metric,  
while human specialists prefer the  
conversion metric until they sense  
mate. In (won) endings against the  
lone king there is by definition no  
'conversion'. It surprises many  
people when they realise the logical  
consequence that chessplayers and  
computer programmers will never  
agree on a generally applicable  
definition of 'best move'.

---

**TOURNEY ANNOUNCEMENT**  
**Wouter MEES Jubilee Theme Tour-**  
**ney - formal and international**

Entries to the director:

René Olthof  
Achter het Schaapshoofd 7,  
5211 MC 's-Hertogenbosch  
Netherlands

Closing date: 1VII92

Judge: W.J.G.Mees, celebrating his  
70th birthday

Theme: The *en passant* capture in a

study to win or draw. W makes critical use of the rule of loss of the right to capture *if not exercised immediately*. In the *try* wP plays two squares and the refutation is by *en passant* capture. In the *solution* the *en passant* capture is legal but fails.

=====

Example No.1 - *thematic* : Paul Keres, 1943 (end of a study)  
d2c4 0000.21 .e2f2f4 3/2+ .  
..., 6. e4/i Kd4 (fe Kxe3) 7. f3 Kc4  
8.Ke2 Kd4 9.Kf2 Ke5 10.Kf1, and  
Kd4 11.Kg2 Ke5 12.Kh3 Kf6 13.Kg4  
Ke5 14.Kg5, or Ke6 11.Ke2 Kd6  
12.Kd3 Kc5 13.Kc3, winning.  
i) 6.f3? Kd4 7.e4 fe drawn.

=====

Example No.2 - *thematic*  
F.Simkhovich, H.M. Schweizerische  
Schachzeitung, 1923  
h1h8 0011.68 h4 g1 .b4 c3 d4 f4 g3 h2  
b3 b5 c4 d5 e7 f5 f6 g4 9/9= .  
1.Bxf6+ ef 2.h4/i b2/ii 3.Kg2/iii  
b1Q 4.Kf2 Qb2+ 5.Se2 Qa1 6.Ke3  
Qe1 7.h5 Kh7 8.h6 Kxh6 stalemate.  
i) *THE THEMATIC TRY! 2.Kg2?  
b23. Kf2 b1Q 4. Se2 Qh1 5. Ke3 Qe1  
6. h4 gh and B1 wins! 2. h3? b2, for  
3...gh, winning.*  
ii) gh 3.Sf3 and 4.Sd2 - and W wins,  
an acceptable thematic result.  
iii) 3.Se2? b1Q+ and 4...Qe1.

=====

Example No.3 - *non-thematic* :  
W.J.G.Mees (schema)  
a1a8 0010.31 g1.a5a6f2.e4 5/2+ .  
1.f4? ef draw, but 1.a7 Kb7 2.a6+  
Kxa7 3.f4+ Kxa6 4.f5 wins.  
This is a *counter-exemple*. The *en  
passant* capture does not occur (is  
not al legal move) in the main line.  
Example No. 3 is therfor *unthematic*  
and *unacceptable* for the tourney.

=====

**TOURNEY ANNOUNCEMENT**  
10th Theme Tourney of DIA-  
GRAMMES  
Entries to director:  
Louis Azémard  
5 res. R. Rolland  
rue Fanouris  
F-13110 Port-de-Bouc  
France  
Judge: Alexander Hildebrand (Swe-  
den)  
Closing dat: 30IV92  
Theme: "W minimal draw - wK +  
one other W man. Bl force unrestrict-  
ted".

---

**Tourney Announcements**

1.  
Polish Chess Federation:  
GRZEBAN Memorial Tourney  
Wladyslaw ROSOLAK  
Sadowa 18/20 m.47  
91-465 LODZ  
Poland  
by: 31x92

2.  
MITROFANOV-60 JT  
'Sport-Chelovek-Vremya'  
Fontanka 59, ap.549,  
191023 ST. PETERSBURG  
Russia  
[Jury]: chief judge: IGM Yuri Aver-  
bakh  
judges: L.A.Mitrofanov and  
V.I.Fyodorov  
send: 2 copies - with a MOTTO  
director: V.I.Tolstov  
by: 1v92  
The award to be published on the  
composer's 60th birthday(2VII92,an  
optimistic schedule)  
Mitrofanov gloriously wears the  
mantle of Korolkov, of the city of  
Troitzky and Kubbel.  
Sponsored by 'LPS Centre Limited'

3.  
OSMO KAILA MT  
Erkki PUHAKKA



Miniatontie 1 B 14

02360 ESPOO

Suomi/Finland

theme: two stipulations with no change to the position. The two stipulations to be chosen from directmate, direct stalemate, helpmate, selfmate, or a study.

judge: P.Perkonoja

by: 3VI 92

4.

Enrico PAOLI JT (80th birthday)

Viale Piave 25

42100 REGGIO EMILIA

Italy

by: 30IX 92

5.

informal 1991-92

PAT-A-MAT

Peter GVOZDJAK

Silvanska 27

841 04 BRATISLAVA

Czechoslovakia

judge: V.Neidze (Georgia)

Other tourneys with closing dates long past, but awards eagerly awaited (keeping our fingers crossed):

6. AITMATOV-60 c.1v88 (EG 93 p448)

7. SERETIN DENZEN-60 c.1vi89 (EG 94 p456)

8. Alexander Hildebrand JT (*Springren, Sweden*) c.31XII 88

---

Roland LECOMTE's article received 31VIII 91

The following article (here translated, condensed and edited by AJR) was prepared by the well known journalist Monsieur Roland Lecomte expressly in connection with the Lyon World Championship stage held in Lyon in 1990. It has not previously been published.

**HENRI RINCK**  
(1870-1952)

Chemical engineer, prodigious chess artist, record holder, and distinguished son of Lyon

The supreme and inimitable work of Henri Rinck, born 120 years ago in Lyon, occupies an immense space in the world of chess: no less than half a century of research into opposing chess force scarcely studied previously, of composition, of verification with meticulous care, ever faithful to his motto 'with willpower, patience and perseverance'. His 190 tourney honours include 60 first prizes carried off in 102 international competitions. Nicknamed 'the Victor Hugo of chess' for the fecundity and quality of his artistic endgame studies, his life and work are hardly separable.

The man. Henri Rinck was born in Lyon 10i1871 at the erstwhile Rinck breweries located at the Cours du Midi (later Cours Verdun) of French parents and a grandfather from Alsace. Educated first as a pupil at the Lyon lyce, and then at the Technische Hochschule ('cole Polytechnique') of Munich in Bavaria where he left with a diploma in chemistry, he entered the Lyon Faculty of Science where he spent two years as assistant to Professor Philippe Barbier in the chemistry laboratory. Thereafter he contributed much to the prestige and image of the tablisements Rinck in the heart and capital of the *département* of Rôhne.

In 1897 in the course of specialist work on chlorophyll Rinck invented a process for the purification of green vegetable oil. He introduced the process first into several plants in Marseille, and subsequently into a large number of refineries for *grignon*

and olive oil in Barcelona (Spain), where he moved in 1900, and where he stayed for the rest of his life.

Rinck's physiognomy expressed calm energy and goodwill. His gaze was both frank and distant, that of a man of action who is at the same time thinker and sensitive poet. From this presence (in both literal and figurative senses) a feeling emerged which compelled sympathy and respect. He died at Badalona (Spain) on 18II 1952, aged 82, after a short but painful illness.

The passion. From the age of 16 Rinck experienced an irresistible leaning towards chess, an inclination and a passion which he was fortunate to be able to combine with his professional career.

Already champion of the town of Lyon he played, and won prizes, in correspondence tournaments organised by the monthly chess magazine 'La Stratgie'. He also won a two-game match against the Algiers chess club, the players of the latter combining in consultation. At 20 his analyses of the Muzio and Kieseritzky Gambits, and the French Defence, were published in 'La Stratgie'. Games played at this time show Rinck's mastery.

Only later, in Spain, through contact with his 'brother in arms' Jos Tolosa y Carrera and with the great problem composer Valentin Marin (they became inseparable friends) did Rinck enter the realm of chess composition - with two-move problems.

The records. Rinck carried 190 major honours in 102 competitions. Rinck was always a striver, never content. He swept the board at Malm (Sweden) 1924 with the first three prizes and first three honourable mentions. And he did exactly the

same the following year, despite all opposition. At Florence in 1925 Rinck took six prizes in another tournament. Enough to put the fear of God into other competitors!

The artist. Rinck's first studies date from 1902. In 1907 his '150 Fins de Partie' was published (there were three editions). In 1919 '300 Fins de Partie', and in 1927 '700 Fins de Partie'.

In the space of 20 years Rinck had scaled the peaks of his chosen art. His style was unmatched, characterised above all by its form, which displays absolute beauty and purity. By this time his name is celebrated in all the countries of the world. 'Les surprises de la thorie' appeared in 1947 in Madrid (in French and Spanish), bringing together 111 endings (and a further dozen) dedicated to his nephew Jacques Rinck, printed in red and black.

The ultimate demanding task, one at which he laboured to his last breath, resulted in final victory (among so many others) over death, when he had the joy, six days before his departure from this world, to hold in his hands the first copy of '1414 Fins de Partie'. In accordance with his wishes the volume accompanied him to his grave. The original edition, published at its author's expense, was made in an edition of 500 copies on 10i1952 by the 'Tipografia La Acadmica' at Barcelona for the author's 82nd birthday. It is a masterpiece, from the standpoint of both form and content. The type was entirely set by hand, the labour of a Benedictine monk, simply not possible today due to the exorbitant cost. Monsieur J.Guise, the former specialist bookseller of 13 rue Saint-Jacques (Paris 5e) took charge of half this edition, which was sold out

on the spot. The volume is 15cm x 27cm, has 760 pages, 238 of them with diagrams six to a page (at least one masterpiece per page), and 530 for the solutions. The work 'of a whole lifetime is dedicated to the house of Rinck and, in the first place, to its primary representative, Monsieur Jacques Rinck of Lyon'.

*1414 Fins de Partie* (together with an appendix of a further 26) are as many pearls of which each, polished to the last degree, has the purity and sparkle of a diamond.

An imperishable jewel - and magic, because what strikes us when we examine a study by the Lyonnais master is the improbability of the outcome.

The verdict of his contemporaries. Osip S. Bernstein (an international grandmaster of practical play): 'the artistic study shows that the value of a position, viewed under the lamp of genius, differs from its apparent value. No one has systematised studies as Henri Rinck has. What an enormous task it is to systematise

exceptions to rules, some of which are by their nature intangible! Spirit triumphs over matter, will over fate.' Vitaly Halberstadt (artist, master and eclectic connoisseur of study composition): 'A unique model in the history of the artistic endgame, Henri Rinck possessed in the highest degree qualities which it is rare to meet in one man: genial constructor, penetrating visual acuity, great tenacity, and a remarkable capacity for hard work. His clear methodical mind gave him the tranquil assurance that he had worked well. Russian folk-lore has it that the universe is borne on the backs of three great whales. We might say that the trio of whales supporting our little universe of the endgame are in chronological order the Germans Kling & Horwitz, the Russian Troitzky, and the Frenchman Henri Rinck'.

Roland Lecomte  
FIDE Judge for Chess Composition  
Paris, III 90

## REVIEWS

REVIEW 'The Comprehension of Beauty', by A.K. Kalinin, 160 pages, Moscow 1990, in Russian. Chess compositions by the armed forces, and a book on it, would be unthinkable in any other country, let alone in an edition of 50.000. The study composers include Kalinin himself (represented by 33 studies and very unlucky in EG's Bent JT), Bondarenko (61, many jointly composed studies), Evreinov (30), (Kanonik, a problemist, but conductor of the newspaper Chervony Girnik's tourneys for 30 years), (Fokin, also a problemist but also an influential columnist, this time of Vecherny

Leningrad) Ulanov (5), Razumenko (19), Tolstoy (6), Asaba (32), Nikolay Filippovich Vlasenko (2), Mazur (8). The figures are numbers, not ages!

REVIEW *el arte del ESTUDIO de ajedrez*, by Zoilo R. Caputto, Vol. 1, Buenos Aires, 1990. In Spanish, 318 pages, with many diagrams and copious illustrations. The is no price. The copy under review is one of an edition of 50, numbered and signed. We trust that a larger edition will follow for wider availability. For a private publication this work is of exceptionally high quality, due to intensive and extensive re-

search over at least five years by Professor Caputto who has corresponded far and wide. Academic thoroughness is repeatedly in evidence, especially in the footnotes. There are names and sources which are to be found neither in Bondarenko's *Stanovleniye* nor in Roycroft's *The Chess Endgame Study*. Starting with the origins of chess itself we are taken in this first volume through the mansuba period, the middle ages, the Spanish and Portuguese contribution, the Italian, then the great Italian *School*, the French and English influence, with 1851 as the Kling & Horwitz watershed. The selections from Stamma (18), del Rio (21), Ponziani (9 del Rio's), and Lolli (9) are admirable. The numerous drawings and reproductions bringing together the major nineteenth century personalities enable us to observe that the portraits might have been made expressly to intimidate children! A knowledge of Spanish (which we do not have) is needed to follow the text, but there is much pleasure and gain even without. An appendix displays analyses and studies by a selection of 'the modern champions'. A fascinating inclusion here is a piece of the score, not of a game, but of a soprano duet, from the opera *Tom Jo-*

*nes* by Philidor. The author finally gives a tantalising foretaste of the content of Vols 2 and 3, which will respectively cover modern composers and composing itself.

REVIEW 'The output of a genius', by V. Kirillov, Riga, 1990, in Russian. The introductory matter, including the P-ending win against Capablanca in a simul in Riga in 1913, is the only significant addition to what has already been published in Whitworth's book. The subject is German Mattison. True, Whitworth will envy the edition size of 20,000. There are 53 studies, 5 supplementary positions, a game, 9 problems, an article by Koblents and Mattison's tournament record.

REVIEW 'The Truth-seekers', 128 pages, Kurgan 1991, in Russian, soft cover. Half of this book covers IGM Yu. Balashov's career, while the other half deals with A. Maksimovskikh. Both are local heroes and each seems to have authored his part of the book - aside from the inevitable introductions by otb IGMs! The 64 Maksimovskikh studies range from 1963 to 1987, of which some 15 won high prizes. There are also a few problems and photos.

\*C\* \*C\* \*C\* \*C\* \*C\* \*C\* \*C\* \*C\* \*C\* \*C\* \*C\* \*C\* \*C\* \*C\*

**Recent otb experience with GBR class 0312**

1.1 **0312** occurred in Karpov vs. Kasparov at Interpolis, x91, with Karpov having the upper hand. The game was drawn under the 50-move rule, but Karpov found an effective way to drive Kasparov's king to the edge - and came close to winning. Kasparov's defensive strategy of keeping his rook out of harm's way and retreating his king towards the corner not controlled by the bishop is

certainly correct, though his play has a passive flavour. In fact, we learn from Stiller/Elkies, at no point in the play did Karpov have a win.

g4f6 **0312.01** d8c6d3f4.h4 4/3.  
WTM.  
63.Kxh4 Rg8 64.Be4 Rg1 65.Sh5 + Ke6  
66.Sg3 Kf6 67.Kg4 Ral 68.Bd5 Ra5  
69.Bf3 Ral 70.Kf4 Ke6  
71.Sc5 + Kd6 72.Se4 + Ke7 73.Ke5

Rf1 74.Bg4 Rg1 75.Be6 Re1  
 76.Bc8 Rc1 77.Kd4 Rd1 + 78.Sd3  
 Kf7 79.Ke3 Ra1 80.Kf4 Ke7  
 81.Sb4 Sc1 82.Sd5 + Kf7 83.Bd7  
 Rf1 + 84.Ke5 Ra1 85.Sg5 + Kg6  
 86.Sf3 Kg7 87.Bg4 Kg6 88.Sf4 +  
 Kg7 89.Sd4 Re1 + 90.Kf5 Rc1  
 91.Be2 Re1 92.Bh5 Ra1 93.fSe6 +  
 Kh6 94.Be8 Ra8 95.Bc6 Ra1  
 96.Kf6 Kh7 97.Sg5 + Kh8 98.dSe6  
 Ra6 99.Be8 Ra8 100.Bh5 Ra1  
 101.Bg6 Rf1 + 102.Ke7 Ra1  
 103.Sf7 + Kg8 104.Sh6 + Kh8  
 105.Sf5 Ra7 +  
 106.Kf6 Ra1 107.Se3 Re1 108.Sd5 Rg1  
 109.Bf5 Rf1 110.dSf4 Ra1  
 111.Sg6 + Kg8 112.Se7 + drawn, Kh8  
 (forced, and if 113.Sg5 Ra6 +  
 114.Kf7 Rf6 +)..

1.2 There are 52 studies starting with  
 this material in Rinck's '1414'. No  
 solution exceeds 7 moves in length.  
 Mostly they are domination studies.  
 All are meticulously analysed. The  
 following two show the defending  
 king in the good defensive corner  
 (which Rinck states to be a general  
 draw, as opposed to the other corner,  
 which he deems lost).

1.3 Rinck, *Bohemia* (Prague), 9x21  
 [648/'1414']  
 b6b8 **0312** c8h2e5g5 4/2 +.

1.Sd7 + Ka8 2.Se6 Rb8 + 3.Ka6 Rb7  
 4.Sc7 + Rxc7 5.Sb6 + Kb8 6.Sd5  
 Ka8 7.Sxc7 +.

1.4 Rinck, Basel tournament pro-  
 gramme, 8iv28 [649/'1414']  
 c6c8 **0312** f3clc4c5 4/2 +.

1.Sd6 + Kb8 2.Sd7 + Ka8 (Ka7;  
 Sb5 +) 3.Sb5, and bR is squeezed,  
 for example Rg3 4.Sb6 +, or Rf1  
 4.Sc7 +.

1.5 The only argument for a general

win (we know now that there is no  
 general win) would be if the defen-  
 der's king in the good corner can  
 nevertheless be driven out and forced  
 into a bad corner - a process that  
 might take 150 moves. There is a pre-  
 cedent with the 5-man endgame two  
 bishops against knight, where the  
 one consensus draw turned out not  
 to be a draw. With six men we are in  
 new territory as regards computer  
 investigations.

1.6 \*C\* GBR class **0312**

A max-length win follows. As usual  
 this totally new result in a 6-man  
 pawnless ending is due to the Stiller/  
 Elkies algorithm executed on  
*The Connection Machine*. All  
 equioptimals are included.

d3a1 **0312** a6d8a3e4 4/2 +.

1.Sc4 Re6 2.Sf2 Re8 3.Bg5 Rf8 4.Sd1  
 Rg8 5.Be7 Re8  
 6.Bb4 Rb8 7.Ba5 Kb1 8.Sc3 + Ka1  
 9.Se4 Kb1 10.Bc7 Rc8  
 11.Bb6 Ka2 12.Kc3 Rb8 13.Bd4 Rd8  
 14.cSd6 Rb8 15.Sc5 Rg8  
 16.Sc4 Rg4 17.Be5 Rg5 18.Bd6 Rg6  
 19.Be7 Rg7 20.Bh4 Rh7 (Rg4)  
 21.Be1 Rh1 22.Bd2 Rd1 23.Bf4 Rf1  
 24.Bc7 Rc1 + 25.Kd3 Kb1  
 26.Bf4 Rg1 (Rh1) 27.Kc3 Rg4 28.Bc7  
 Rg7 29.Ba5 Kc1 30.Sb2 Kb1 (Rg5)  
 31.cSd3 Rg5 (Ra7) 32.Bb4 Rb5  
 33.Bd6 Rb6 (Rd5) 34.Bf4 Rf6  
 35.Bd2 Rf7 (Rf8,d6)  
 PT115  
 36.Sc4 Rd7 37.Be3 (Bf4,g5,h6) Re7  
 38.Bc5 (Bc1) Rc7 39.Ba3 Rc8 40.Kb3  
 (Sb4) Rb8 +  
 41.Sb4 Rd8 42.Sb6 Rf8 (Rg8,h8,d2)  
 43.S6d5 (Sa4) Rf2 44.Sc3 + Ka1  
 45.Sc6 Rg2 (Rh2,c2)  
 PT12  
 46.Sd4 Rd2 47.Bc1 Rf2 (Rg2,h2)

48. Ka3 (dSe2) and 49. wins.

Only 49 moves! FIDE will be relieved!

\*C\* \*C\* \*C\* \*C\* \*C\* \*C\*

\*C\* More maxi-length win info. on 6-man pawnless endings

- GBR class **0312** 49 moves
- GBR class **0321** 68
- GBR class **1601** 153
- GBR class **3201** 82
- GBR class **3210** 101
- GBR class **4103** 71

All due to the Stiller/Elkies duo exercising their powerful algorithm on *The Connection Machine* in Los Alamos. We learn that all Zugwangs and WTM/BTM statistics have been extracted, but details are still lacking. What interesting times we live in and lie ahead!

\*C\* \*C\* \*C\* \*C\* \*C\* \*C\*

1.0 Data bases for all!

1.1 In ix.90 the 0410 data base came on sale from ChessBase, the company based in (West) Germany. Distributed on a single high density (1.2 or 1.4 megabyte) diskette it is simple to install on a personal computer ('PC'). Except that it makes no attempt to win any drawn position it performs beautifully. The depths of

all moves (1-ply) from the displayed position can be displayed or concealed.

1.2 Further data bases are promised from ChessBase, but there are severe difficulties preventing the compression of data bases (such as 1033 1060 1006 0023) where draws are the exception. This is because every won position has to have an associated depth. However, we look forward to 0014 and 1600/3200.

1.3 Ken Thompson has privately indicated his interest in generating 6-man pawnless databases 'to conversion' (good!), since he has access to new hardware.

AJR has proposed 0321 and 0332, but Ken always makes up his own mind.

1.4 Any 6-man data base needs to be distributed using CD-ROM technology. To attach CD-ROM to a PC costs about £ 500 - at present.

In 91 Ken Thompson distributed twenty-two 5-man endgame databases to friends, using CD-ROM and a Huffman coding compression technique. The CD-ROM itself weighs just half an ounce! The databases are, in GBR code sequence: 0004.10 0005 0014 0023 0104 0400.10 0401 0410 0500 1004 1006 1033 1060 1303 1330 1400 1600 4000.10 4001 4010 4100 5000.

2. Zugzwangs identified by computer.

2.1 Erratum. EG93 p433, rightmost column, item 184. Add bSf7, to make the line read: 184 d7f8 f6f5f7

2.2 There are 17 true zugzwangs in the GBR class 0410, identified for us by Lars RASMUSSEN of Tranberg, Denmark, who is the database programmer of ChessBase. At our request Lars has added the BTM W win depth. WTM draws only - by definition of true zugzwang.

wK	wR	wB	bK	bR	
b8	b7	b5	d8	a5	3
b8	g2	b7	h1	h3	2

Bianchetti, 1925 (EG20.1112)	6	6	8784735
c8 f7 h5 e8 e6 2	7	7	5944626
(Andrew Miller, 1966 EG8.262)	8	10	1884344
c7 e7 d3 a7 f6 45	9	11	773044
A. Zytogorski, 1843(?) (Chéron I, 414)	10	12	381561
c7 h7 c4 a7 g6 26	11	13	201235
c7 c6 g6 a7 h6 13	12	14	128092
c7 e5 e7 a6 e8 18	13	15	86041
d7 b5 g5 a8 f2 32	14	16	60022
c6 c7 d6 a8 b8 8	15	17	42738
c6 e7 d3 b8 b4 34	16	20	28287
c6 g7 h6 f8 d8 4	17	21	19129
d6 b6 c7 c8 a8 1	18	22	13036
d6 f1 f7 c8 g7 49	19	23	7730
d6 a6 f7 d8 b8 17	20	24	4859
d6 g6 g8 e8 h8 21	21	25	3546
d5 f7 e5 a8 h5 41	22	26	2493
d5 g7 d4 d8 f4 16	23	27	1957

---

3.0 Danger! Programmer at work!  
 You have been warned! We give below unadulterated computer-generated data (from Ken Thompson, on dates as shown) which is sometimes self-explanatory, sometimes not. Figures within parentheses are not, repeat not, to be taken literally. (Evgeny Gik, prolific journalist in Moscow, are you listening?) Some data is in idiosyncratic *octal*, and the heading 'CHESS GAMES' simply identifies the computer stationery used by Ken Thompson - it has no other significance.

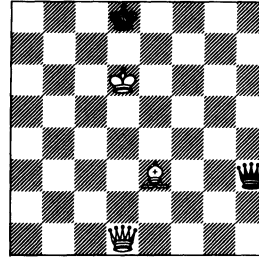
3.1 Fig.1 shows the frequency distribution of *ultimate* depths in 4010.

3.2 Fig.2 shows the frequency distribution *ultimate* depths in 4001.

d0/QB.Q:			
0	0	86858386	
1	1	1422452	
2	2	1352875	
3	3	2169122	
4	4	3994826	
5	5	6874447	

d1/QN.Q:			
0	0	88098330	
1	1	1010310	
2	2	897513	
3	3	1411438	
4	4	2810217	
5	5	4835339	
6	6	7064104	

7 7 7681208  
 8 10 4786337  
 9 11 1513116  
 10 12 436663  
 11 13 167169  
 12 14 106334  
 13 15 76432  
 14 16 50416  
 15 17 32073  
 16 20 20601  
 17 21 13820  
 18 22 9214  
 19 23 6301  
 20 24 4338  
 21 25 3643  
 22 26 2804  
 23 27 1880  
 24 30 1612  
 25 31 1185  
 26 32 683  
 27 33 358  
 28 34 308  
 29 35 295  
 30 36 262  
 31 37 211  
 32 ' ' 119  
 33 '! ' 95  
 34 '" ' 67  
 35 '# ' 69  
 36 '\$ ' 53  
 37 '% ' 37  
 38 '& ' 5  
 39 '' ' 5  
 40 '< ' 21  
 41 ') ' 7



**Initial Position**

**B**  
 1 ♔b6† (22) ♚e8 (22)  
 1 ... ♚c8 (-17)  
 2 ♜e1† (21)  
 2 ♜e2† (0)  
 2 ... ♜f8 (21)  
 2 ... ♜f7 (0) ♜e3 (-17) ♜e6† (-18)  
 3 ♜e7† (20) ♜g8 (20) 4 ♜e8† (19)  
 4 ♜d8† (+2) 4 ♜g5† (+2)  
 4 ... ♜h7 (19)  
 4 ... ♜g7 (-12)  
 5 ♜e4† (18)  
 5 ♜e7† (+2)  
 5 ... ♜g7 (18)  
 5 ... ♜g8 (-11) ♜h8 (-14) ♜f5 (-14) ♜h6 (-16)  
 6 ♜d4† (17)  
 6 ♜e7† (+3) 6 ♜e5† (+4)  
 6 ... ♜f7 (17)  
 6 ... ♜g8 (-14) ♜f8 (-15) ♜h6 (-15)  
 7 ♜e7† (16) ♜g6 (16) 8 ♜e8† (15) ♜g5 (15)  
 8 ... ♜h7 (-9) ♜f5 (-9) ♜h6 (-9)  
 9 ♜e3† (14) ♜h4 (14)  
 9 ... ♜f6 (-5) ♜xe3 (-8) ♜g4 (-12)  
 10 ♜e7† (13)  
 10 ♜h8† (0) 10 ♜f2† (+2)  
 10 ... ♜g3 (13)  
 10 ... ♜g4 (-11)  
 11 ♜e5† (12) ♜g2 (12)  
 11 ... ♜f3 (-9) ♜g4 (-10)  
 12 ♜b2† (11) ♜h1 (11)  
 12 ... ♜f3 (-6) ♜g3 (-8)  
 13 ♜b1† (10)

3.3 Fig.3 shows annotated *ultimate* play in 4010.

**Chess Games**  
November 14, 1985



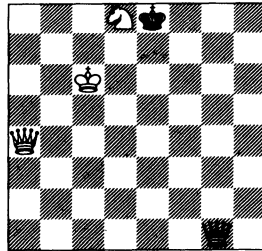
- 13  $\text{쑦a1}\dagger$  (0) 13  $\text{쑦c1}\dagger$  (0)  
13 ...  $\text{쑦g2}$  (10)  
13 ...  $\text{쑦f1}$  (-8)  
14  $\text{쑦c2}\dagger$  (9)  
14  $\text{쑦g1}\dagger$  (0) 14  $\text{쑦a2}\dagger$  (+2) 14  $\text{쑦b2}\dagger$  (+2)  
14 ...  $\text{쑦f3}$  (9)  
14 ...  $\text{쑦h1}$  (-4)  $\text{쑦g3}$  (-6)  
15  $\text{쑦f2}\dagger$  (8)  
15  $\text{쑦d1}\dagger$  (+2)  
15 ...  $\text{쑦e4}$  (8)  
15 ...  $\text{쑦g4}$  (-6)  
16  $\text{쑦f4}\dagger$  (7)  
16  $\text{쑦c2}\dagger$  (+2)  
16 ...  $\text{쑦d3}$  (7) 17  $\text{쑦d4}\dagger$  (6)  $\text{쑦e2}$  (6)  
17 ...  $\text{쑦c2}$  (-6)  
18  $\text{쑦b2}\dagger$  (5)  
18  $\text{쑦c4}\dagger$  (+2) 18  $\text{쑦d2}\dagger$  (+4)  
18 ...  $\text{쑦f3}$  (5)  
18 ...  $\text{쑦x3}$  (+4)  $\text{쑦e1}$  (-3)  
19  $\text{쑦f6}\dagger$  (4)  
19  $\text{쑦f2}\dagger$  (+4)  
19 ...  $\text{쑦e4}$  (4)  
19 ...  $\text{쑦x3}$  (+5)  $\text{쑦f5}$  (+3)  $\text{쑦g3}$  (-1)  $\text{쑦g4}$  (-2)  $\text{쑦e2}$  (-2)  $\text{쑦g2}$  (-2)  
20  $\text{쑦d4}\dagger$  (3)  
20  $\text{쑦e5}\dagger$  (+1) 20  $\text{쑦f4}\dagger$  (+4)  
20 ...  $\text{쑦f3}$  (3) 21  $\text{쑦f4}\dagger$  (2)  
21  $\text{쑦f6}\dagger$  (+2) 21  $\text{쑦d1}\dagger$  (+8) 21  $\text{쑦d5}\dagger$  (+11)  
21 ...  $\text{쑦e2}$  (2)  
22  $\text{쑦f2}\dagger$  (1)  
22  $\text{쑦c4}\dagger$  (+6)  
22 ...  $\text{쑦d3}$  (1) 23  $\text{쑦d2}\dagger$  (0)  $\text{쑦e4}$  (0)  
23 ...  $\text{쑦c4}$  (0)  
24  $\text{쑦d5}\dagger$  (9)  
24  $\text{쑦b4}\dagger$  (-6) 24  $\text{쑦d4}\dagger$  (-6) 24  $\text{쑦c2}\dagger$  (0)  
24 ...  $\text{쑦x3}$  (9) 25  $\text{쑦b3}\dagger$  (8)  $\text{쑦f4}$  (8)  
25 ...  $\text{쑦d4}$  (0)  $\text{쑦d2}$  (-1)  $\text{쑦f2}$  (-1)  $\text{쑦e4}$  (-1)  $\text{쑦e2}$  (-1)  
26  $\text{쑦xh3}$  (7)  $\text{쑦e4}$  (7)  
26 ...  $\text{쑦g5}$  (-2)  
27  $\text{쑦b3}$  (6)
- 27  $\text{쑦c5}$  (0) 27  $\text{쑦c6}$  (0) 27  $\text{쑦g4}\dagger$  (0) 27  $\text{쑦e6}\dagger$  (0) 27  $\text{쑦f1}$  (0) 27  $\text{쑦h4}\dagger$  (0) 27  $\text{쑦h5}$  (0) 27  $\text{쑦h6}$  (0) 27  $\text{쑦g3}$  (0) 27  $\text{쑦c3}$  (0) 27  $\text{쑦a3}$  (0) 27  $\text{쑦h1}\dagger$  (0) 27  $\text{쑦c7}$  (+1) 27  $\text{쑦e7}$  (+1) 27  $\text{쑦d7}$  (+1) 27  $\text{쑦e6}$  (+1) 27  $\text{쑦d7}$  (+1) 27  $\text{쑦c8}$  (+1) 27  $\text{쑦g2}\dagger$  (+1) 27  $\text{쑦h7}\dagger$  (+1) 27  $\text{쑦h8}$  (+1) 27  $\text{쑦h2}$  (+1)  
27 ...  $\text{쑦f4}$  (6)  
27 ...  $\text{쑦d4}$  (0)  $\text{쑦f5}$  (-1)  
28  $\text{쑦d5}$  (5)  
28  $\text{쑦d3}$  (0) 28  $\text{쑦e6}$  (+1) 28  $\text{쑦a4}\dagger$  (+1) 28  $\text{쑦c4}\dagger$  (+1) 28  $\text{쑦d5}$  (+1) 28  $\text{쑦e6}$  (+1) 28  $\text{쑦c2}$  (+1) 28  $\text{쑦d1}$  (+1) 28  $\text{쑦b4}\dagger$  (+1) 28  $\text{쑦b5}$  (+1) 28  $\text{쑦c3}$  (+1) 28  $\text{쑦b1}$  (+1) 28  $\text{쑦c7}$  (+2) 28  $\text{쑦e7}$  (+2) 28  $\text{쑦c5}$  (+2) 28  $\text{쑦d7}$  (+2) 28  $\text{쑦c6}$  (+2) 28  $\text{쑦f7}\dagger$  (+2) 28  $\text{쑦g8}$  (+2) 28  $\text{쑦a2}$  (+2) 28  $\text{쑦b6}$  (+2) 28  $\text{쑦b7}$  (+2) 28  $\text{쑦b8}$  (+2) 28  $\text{쑦a3}$  (+2) 28  $\text{쑦h3}$  (+2) 28  $\text{쑦b2}$  (+2)  
28 ...  $\text{쑦g5}$  (5)  
28 ...  $\text{쑦f5}$  (0)  $\text{쑦g4}$  (-1)  
29  $\text{쑦f3}$  (4)  
29  $\text{쑦e5}$  (0) 29  $\text{쑦e6}$  (+1) 29  $\text{쑦a4}$  (+1) 29  $\text{쑦c4}$  (+1) 29  $\text{쑦b4}$  (+1) 29  $\text{쑦b8}$  (+1) 29  $\text{쑦d3}$  (+1) 29  $\text{쑦e3}\dagger$  (+1) 29  $\text{쑦g3}\dagger$  (+1) 29  $\text{쑦e4}$  (+2) 29  $\text{쑦d6}$  (+2) 29  $\text{쑦d4}$  (+2) 29  $\text{쑦a2}$  (+2) 29  $\text{쑦c2}$  (+2) 29  $\text{쑦d1}$  (+2) 29  $\text{쑦b5}$  (+2) 29  $\text{쑦b6}$  (+2) 29  $\text{쑦b7}$  (+2) 29  $\text{쑦a3}$  (+2) 29  $\text{쑦c3}$  (+2) 29  $\text{쑦h3}$  (+2) 29  $\text{쑦b2}$  (+2) 29  $\text{쑦b1}$  (+2) 29  $\text{쑦c6}$  (+3) 29  $\text{쑦c4}$  (+3) 29  $\text{쑦c5}$  (+3)  
29 ...  $\text{쑦h6}$  (4)  
29 ...  $\text{쑦h4}$  (0)  $\text{쑦g6}$  (0)  
30  $\text{쑦g2}$  (3)  
30  $\text{쑦e6}$  (0) 30  $\text{쑦g4}$  (0) 30  $\text{쑦g3}$  (0) 30  $\text{쑦d6}$  (+1) 30  $\text{쑦e5}$  (+1) 30  $\text{쑦e4}$  (+1) 30  $\text{쑦f4}\dagger$  (+1) 30  $\text{쑦f5}$  (+1) 30  $\text{쑦f6}\dagger$  (+1) 30  $\text{쑦f7}$  (+1) 30  $\text{쑦e3}\dagger$  (+1) 30  $\text{쑦c6}$  (+2) 30  $\text{쑦c4}$  (+2) 30  $\text{쑦e4}$  (+2) 30  $\text{쑦c5}$  (+2) 30  $\text{쑦d4}$  (+2) 30  $\text{쑦e2}$  (+2) 30  $\text{쑦d1}$  (+2) 30  $\text{쑦h1}\dagger$  (+2) 30  $\text{쑦f8}\dagger$  (+2) 30  $\text{쑦d3}$  (+2) 30  $\text{쑦c3}$  (+2) 30  $\text{쑦b3}$  (+2) 30  $\text{쑦a3}$  (+2) 30  $\text{쑦h3}\dagger$  (+2) 30  $\text{쑦f2}$  (+2) 30  $\text{쑦f1}$  (+2)  
30 ...  $\text{쑦h7}$  (3)  
30 ...  $\text{쑦h5}$  (0)  
31  $\text{쑦e5}$  (2)  
31  $\text{쑦e6}$  (0) 31  $\text{쑦e4}$  (+1) 31  $\text{쑦d6}$  (+1) 31  $\text{쑦d4}$  (+1) 31  $\text{쑦g3}$  (+1) 31  $\text{쑦g4}$  (+1) 31  $\text{쑦g5}$  (+1) 31  $\text{쑦g1}$  (+1) 31  $\text{쑦c6}$  (+2) 31  $\text{쑦c4}$  (+2) 31  $\text{쑦c5}$  (+2) 31  $\text{쑦f3}$  (+2) 31  $\text{쑦e4}\dagger$  (+2) 31  $\text{쑦h3}\dagger$  (+2) 31  $\text{쑦f2}$  (+2) 31  $\text{쑦d2}$  (+2) 31  $\text{쑦c2}\dagger$  (+2) 31  $\text{쑦h2}\dagger$  (+2) 31

♖f1 (+3) 31 ♜h1† (+3) 31 ♜e2 (+3) 31  
 ♜b2 (+3) 31 ♜a2 (+3)  
 31 ... ♜h6 (2)  
 31 ... ♜h8 (0)  
 32 ♜f6 (1)  
 32 ♜e6 (+1) 32 ♜f5 (+1) 32 ♜g3 (+1) 32  
 ♜g4 (+1) 32 ♜g8 (+1) 32 ♜g1 (+1) 32  
 ♜d6 (+2) 32 ♜d4 (+2) 32 ♜f4 (+2) 32  
 ♜d5 (+2) 32 ♜e4 (+2) 32 ♜f3 (+3) 32  
 ♜e4 (+3) 32 ♜d5 (+3) 32 ♜c6† (+3) 32  
 ♜b7 (+3) 32 ♜a8 (+3) 32 ♜h3† (+3) 32  
 ♜f1 (+3) 32 ♜h1† (+3) 32 ♜f2 (+3) 32  
 ♜d2† (+3) 32 ♜c2 (+3) 32 ♜b2 (+3) 32  
 ♜a2 (+3) 32 ♜h2† (+3) 32 ♜e2 (+4)  
 32 ... ♜h5 (1) 33 ♜h3# (0)  
 33 ♜f5 (+1) 33 ♜e4 (+1) 33 ♜g3 (+1) 33  
 ♜e7 (+2) 33 ♜g7 (+2) 33 ♜e5 (+2) 33  
 ♜f7 (+2) 33 ♜e6 (+2) 33 ♜f3† (+2) 33  
 ♜g6† (+2) 33 ♜g7 (+2) 33 ♜g8 (+2) 33  
 ♜e2† (+2) 33 ♜g1 (+2) 33 ♜f2 (+3) 33  
 ♜d2 (+3) 33 ♜f1 (+4) 33 ♜c2 (+4) 33  
 ♜b2 (+4) 33 ♜a2 (+4) 33 ♜h2† (+4) 33  
 ♜d5† (+5) 33 ♜c6 (+5) 33 ♜b7 (+5) 33  
 ♜a8 (+5) 33 ♜h1† (+5)

3.4 Fig.4 shows annotated *ultimate* play in 4001.

## Chess Games

November 14, 1985



Initial Position

1 ♜d6† (30) ♜f8 (30) 2 ♞e6†  
 (29) ♜f7 (29)  
 2 ... ♜g8 (-11)  
 3 ♜d7† (28) ♜f6 (28)  
 3 ... ♜g6 (-22) ♜g8 (-25)  
 4 ♜e7† (27) ♜f5 (27)  
 4 ... ♜g6 (-21)

5 ♜f7† (26) ♜e4 (26)  
 5 ... ♜g4 (-19)  
 6 ♜b7† (25)  
 6 ♞c5† (0)  
 6 ... ♜d3 (25)  
 6 ... ♜f5 (-6) ♜e3 (-18)  
 7 ♜b3† (24) ♜d2 (24)  
 7 ... ♜e2 (-15) ♜e4 (-16)  
 8 ♜b2† (23) ♜d3 (23)  
 8 ... ♜e1 (-15) ♜e3 (-16) ♜d1 (-16)  
 9 ♞c5† (22)  
 9 ♜b3† (+2)  
 9 ... ♜e3 (22)  
 9 ... ♜xc5† (-14) ♜c4 (-20)  
 10 ♜c3† (21)  
 10 ♜b3† (+2)  
 10 ... ♜f4 (21)  
 10 ... ♜f2 (-16) ♜e2 (-19)  
 11 ♞e6† (20) ♜e4 (20)  
 11 ... ♜f5 (-12) ♜g4 (-13)  
 12 ♜c6† (19) ♜f5 (19)  
 12 ... ♜e3 (-12)  
 13 ♜b5† (18)  
 13 ♜c2† (+12)  
 13 ... ♜g6 (18)  
 13 ... ♜e4 (-10) ♜g4 (-11) ♜c5† (-12)  
 ♜f6 (-15)  
 14 ♜e8† (17) ♜h7 (17)  
 14 ... ♜f6 (-10) ♜h6 (-10) ♜f5 (-17)  
 15 ♜f7† (16)  
 15 ♜e7† (0) 15 ♜h5† (+2)  
 15 ... ♜h6 (16)  
 15 ... ♜h8 (-12)  
 16 ♜f6† (15)  
 16 ♜f8† (+2)  
 16 ... ♜g6 (15)  
 16 ... ♜h5 (-7) ♜h7 (-10)  
 17 ♜h4† (14)  
 17 ♜h8† (+2)  
 17 ... ♜h5 (14) 18 ♜f4† (13)  
 18 ♜f6† (+2)  
 18 ... ♜h7 (13)  
 18 ... ♜g6 (-4) ♜g5 (-11)  
 19 ♜f6 (12) ♜h2† (12)

- 19 ...  $\text{ㄷ}^{\text{h6}}(-5) \text{ㄷ}^{\text{g4}}(-7) \text{ㄷ}^{\text{g6}}(-8) \text{ㄷ}^{\text{d1+}}(-8) \text{ㄷ}^{\text{f7}}(-9) \text{ㄷ}^{\text{g5}}(-10) \text{ㄷ}^{\text{e5+}}(-10) \text{ㄷ}^{\text{d5+}}(-10) \text{ㄷ}^{\text{c5+}}(-10)$   
**20  $\text{ㄷ}^{\text{d7}}(11) \text{ㄷ}^{\text{d2+}}(11)$**
- 20 ...  $\text{ㄷ}^{\text{h6}}(-4) \text{ㄷ}^{\text{g3}}(-6) \text{ㄷ}^{\text{g1}}(-6) \text{ㄷ}^{\text{g2}}(-6) \text{ㄷ}^{\text{e5}}(-8) \text{ㄷ}^{\text{b2}}(-8) \text{ㄷ}^{\text{d6+}}(-9) \text{ㄷ}^{\text{c7+}}(-9)$   
**21  $\text{ㄷ}^{\text{e8}}(10) \text{ㄷ}^{\text{h6}}(10)$**
- 21 ...  $\text{ㄷ}^{\text{g2}}(-7) \text{ㄷ}^{\text{c3}}(-8) \text{ㄷ}^{\text{g5}}(-8) \text{ㄷ}^{\text{d4}}(-8) \text{ㄷ}^{\text{d7+}}(-8) \text{ㄷ}^{\text{d8+}}(-8) \text{ㄷ}^{\text{b2}}(-8)$   
**22  $\text{ㄷ}^{\text{f8+}}(9) \text{ㄷ}^{\text{g8}}(9)$**
- 22 ...  $\text{ㄷ}^{\text{f8+}}(-3)$   
**23  $\text{ㄷ}^{\text{g6}}(8) \text{ㄷ}^{\text{g7}}(8)$**
- 23 ...  $\text{ㄷ}^{\text{f8+}}(-4) \text{ㄷ}^{\text{e3+}}(-4) \text{ㄷ}^{\text{g6+}}(-4) \text{ㄷ}^{\text{h7}}(-5)$   
**24  $\text{ㄷ}^{\text{e7+}}(7)$**
- 24 ...  $\text{ㄷ}^{\text{f5}}(0)$   
**24 ...  $\text{ㄷ}^{\text{h7}}(7)$**
- 24 ...  $\text{ㄷ}^{\text{h8}}(-3) \text{ㄷ}^{\text{xe7+}}(-4)$   
**25  $\text{ㄷ}^{\text{h4+}}(6)$**
- 25 ...  $\text{ㄷ}^{\text{f5+}}(0)$   
**25 ...  $\text{ㄷ}^{\text{h6}}(6) \text{26 } \text{ㄷ}^{\text{e4+}}(5)$**
- 26 ...  $\text{ㄷ}^{\text{g4}}(+5)$   
**26 ...  $\text{ㄷ}^{\text{h8}}(5)$**
- 26 ...  $\text{ㄷ}^{\text{g7}}(-1) \text{ㄷ}^{\text{g6+}}(-3)$   
**27  $\text{ㄷ}^{\text{g4}}(4)$**
- 27 ...  $\text{ㄷ}^{\text{e5+}}(0) \text{27 } \text{ㄷ}^{\text{d5}}(+2) \text{27 } \text{ㄷ}^{\text{f5}}(+2) \text{27 } \text{ㄷ}^{\text{d4+}}(+2)$   
**27 ...  $\text{ㄷ}^{\text{g7}}(4)$**
- 27 ...  $\text{ㄷ}^{\text{h7}}(+3) \text{ㄷ}^{\text{g6+}}(0) \text{ㄷ}^{\text{g5}}(-1) \text{ㄷ}^{\text{e6}}(-1) \text{ㄷ}^{\text{c6+}}(-1) \text{ㄷ}^{\text{h5+}}(-1) \text{ㄷ}^{\text{f8+}}(-2)$   
**28  $\text{ㄷ}^{\text{h4+}}(3)$**
- 28 ...  $\text{ㄷ}^{\text{h5+}}(+2) \text{28 } \text{ㄷ}^{\text{h3+}}(+2) \text{28 } \text{ㄷ}^{\text{f4}}(+2)$   
**28 ...  $\text{ㄷ}^{\text{h7}}(3) \text{29 } \text{ㄷ}^{\text{f4}}(2)$**
- 29 ...  $\text{ㄷ}^{\text{g5}}(+2) \text{29 } \text{ㄷ}^{\text{f6+}}(+2) \text{29 } \text{ㄷ}^{\text{g3}}(+2) \text{29 } \text{ㄷ}^{\text{g4}}(+2) \text{29 } \text{ㄷ}^{\text{d4+}}(+2)$   
**29 ...  $\text{ㄷ}^{\text{g7}}(2)$**
- 29 ...  $\text{ㄷ}^{\text{g8+}}(+2) \text{ㄷ}^{\text{g6+}}(+2) \text{ㄷ}^{\text{xe7+}}(+2) \text{ㄷ}^{\text{f5}}(+1) \text{ㄷ}^{\text{e4}}(+1) \text{ㄷ}^{\text{d3}}(+1) \text{ㄷ}^{\text{c2}}(+1) \text{ㄷ}^{\text{b1}}(+1) \text{ㄷ}^{\text{h4}}(+1) \text{ㄷ}^{\text{h3}}(+1) \text{ㄷ}^{\text{h2}}(+1) \text{ㄷ}^{\text{h1}}(+1) \text{ㄷ}^{\text{f7+}}(0) \text{ㄷ}^{\text{h5+}}(0)$   
**30  $\text{ㄷ}^{\text{d7}}(1)$**
- 30 ...  $\text{ㄷ}^{\text{h2+}}(+2) \text{30 } \text{ㄷ}^{\text{h4+}}(+2) \text{30 } \text{ㄷ}^{\text{e3}}(+9) \text{30 } \text{ㄷ}^{\text{d2}}(+9) \text{30 } \text{ㄷ}^{\text{c1}}(+9)$   
**30 ...  $\text{ㄷ}^{\text{h7}}(1)$**
- 30 ...  $\text{ㄷ}^{\text{g6}}(+4) \text{ㄷ}^{\text{xe7+}}(+3) \text{ㄷ}^{\text{f8}}(+2) \text{ㄷ}^{\text{f6}}(+2) \text{ㄷ}^{\text{d4+}}(+2) \text{ㄷ}^{\text{g8}}(+2) \text{ㄷ}^{\text{f7}}(+2) \text{ㄷ}^{\text{g5}}$   
**31  $\text{ㄷ}^{\text{h2+}}(0)$**
- 31 ...  $\text{ㄷ}^{\text{h6}}(0) \text{32 } \text{ㄷ}^{\text{c2+}}(9) \text{ㄷ}^{\text{h8}}(9)$   
**31  $\text{ㄷ}^{\text{e4+}}(+1) \text{31 } \text{ㄷ}^{\text{f5+}}(+2)$**
- 31 ...  $\text{ㄷ}^{\text{g7}}(-2) \text{ㄷ}^{\text{g6}}(-7)$   
**33  $\text{ㄷ}^{\text{c8+}}(8)$**
- 33 ...  $\text{ㄷ}^{\text{b2+}}(-6) \text{33 } \text{ㄷ}^{\text{g2}}(-5) \text{33 } \text{ㄷ}^{\text{c3+}}(-2)$   
**33 ...  $\text{ㄷ}^{\text{g7}}(8)$**
- 33 ...  $\text{ㄷ}^{\text{f8}}(-5)$   
**34  $\text{ㄷ}^{\text{f5+}}(7)$**
- 34 ...  $\text{ㄷ}^{\text{c3+}}(+4)$   
**34 ...  $\text{ㄷ}^{\text{f6}}(7)$**
- 34 ...  $\text{ㄷ}^{\text{f7}}(-1) \text{ㄷ}^{\text{h7}}(-1) \text{ㄷ}^{\text{g6}}(-1)$   
**35  $\text{ㄷ}^{\text{h6}}(6)$**
- 35 ...  $\text{ㄷ}^{\text{a6+}}(+2) \text{35 } \text{ㄷ}^{\text{c6+}}(+2)$   
**35 ...  $\text{ㄷ}^{\text{e5}}(6)$**
- 35 ...  $\text{ㄷ}^{\text{g5}}(-1) \text{ㄷ}^{\text{g7}}(-2) \text{ㄷ}^{\text{g6}}(-2)$   
**36  $\text{ㄷ}^{\text{c4}}(5)$**
- 36 ...  $\text{ㄷ}^{\text{c3+}}(0) \text{36 } \text{ㄷ}^{\text{b7}}(+1) \text{36 } \text{ㄷ}^{\text{a6}}(+1) \text{36 } \text{ㄷ}^{\text{b8+}}(+1) \text{36 } \text{ㄷ}^{\text{a8}}(+1) \text{36 } \text{ㄷ}^{\text{e8+}}(+1) \text{36 } \text{ㄷ}^{\text{g8}}(+1) \text{36 } \text{ㄷ}^{\text{h8+}}(+1) \text{36 } \text{ㄷ}^{\text{c6}}(+1) \text{36 } \text{ㄷ}^{\text{c5+}}(+1) \text{36 } \text{ㄷ}^{\text{c2}}(+1) \text{36 } \text{ㄷ}^{\text{c1}}(+1) \text{36 } \text{ㄷ}^{\text{e7}}(+1) \text{36 } \text{ㄷ}^{\text{g4+}}(+1) \text{36 } \text{ㄷ}^{\text{d8}}(+2) \text{36 } \text{ㄷ}^{\text{f8}}(+2) \text{36 } \text{ㄷ}^{\text{c7+}}(+2) \text{36 } \text{ㄷ}^{\text{e8}}(+2) \text{36 } \text{ㄷ}^{\text{c6}}(+2) \text{36 } \text{ㄷ}^{\text{d8}}(+2) \text{36 } \text{ㄷ}^{\text{c7}}(+2) \text{36 } \text{ㄷ}^{\text{f5}}(+2) \text{36 } \text{ㄷ}^{\text{f7+}}(+2) \text{36 } \text{ㄷ}^{\text{g8}}(+2)$   
**36 ...  $\text{ㄷ}^{\text{f6}}(5) \text{37 } \text{ㄷ}^{\text{c5}}(4)$**
- 37 ...  $\text{ㄷ}^{\text{e8}}(0) \text{37 } \text{ㄷ}^{\text{d6}}(0) \text{37 } \text{ㄷ}^{\text{f7}}(0) \text{37 } \text{ㄷ}^{\text{b5}}(0) \text{37 } \text{ㄷ}^{\text{d5}}(0) \text{37 } \text{ㄷ}^{\text{c7}}(0) \text{37 } \text{ㄷ}^{\text{d4+}}(0) \text{37 } \text{ㄷ}^{\text{e4}}(0) \text{37 } \text{ㄷ}^{\text{f4+}}(0) \text{37 } \text{ㄷ}^{\text{g4}}(0) \text{37 } \text{ㄷ}^{\text{h4+}}(0) \text{37 } \text{ㄷ}^{\text{c3+}}(0) \text{37 } \text{ㄷ}^{\text{c6}}(+1) \text{37 } \text{ㄷ}^{\text{d8}}(+1) \text{37 } \text{ㄷ}^{\text{c7}}(+1) \text{37 } \text{ㄷ}^{\text{g4+}}(+1) \text{37 } \text{ㄷ}^{\text{g8+}}(+1) \text{37 } \text{ㄷ}^{\text{a6+}}(+1) \text{37 } \text{ㄷ}^{\text{e6+}}(+1) \text{37 } \text{ㄷ}^{\text{b3}}(+1) \text{37 } \text{ㄷ}^{\text{d3}}(+1) \text{37 } \text{ㄷ}^{\text{e2}}(+1) \text{37 } \text{ㄷ}^{\text{f1+}}(+1) \text{37 } \text{ㄷ}^{\text{b4}}(+1) \text{37 } \text{ㄷ}^{\text{a4}}(+1) \text{37 } \text{ㄷ}^{\text{c2}}(+1) \text{37 } \text{ㄷ}^{\text{c8}}(+2) \text{37 } \text{ㄷ}^{\text{f5}}(+2) \text{37 } \text{ㄷ}^{\text{f7+}}(+2) \text{37 } \text{ㄷ}^{\text{g8}}(+2) \text{37 } \text{ㄷ}^{\text{a2}}(+2) \text{37 } \text{ㄷ}^{\text{c6+}}(+2) \text{37 } \text{ㄷ}^{\text{c8}}(+2) \text{37 } \text{ㄷ}^{\text{c1}}(+2)$   
**37 ...  $\text{ㄷ}^{\text{g6}}(4)$**
- 37 ...  $\text{ㄷ}^{\text{g7}}(-1)$   
**38  $\text{ㄷ}^{\text{e7}}(3)$**
- 38 ...  $\text{ㄷ}^{\text{e8}}(0) \text{38 } \text{ㄷ}^{\text{e6}}(0) \text{38 } \text{ㄷ}^{\text{d6}}(+1) \text{38 } \text{ㄷ}^{\text{g4}}(+1) \text{38 } \text{ㄷ}^{\text{f5}}(+1) \text{38 } \text{ㄷ}^{\text{f7}}(+1) \text{38 } \text{ㄷ}^{\text{g8}}(+1) \text{38 } \text{ㄷ}^{\text{d6+}}(+1) \text{38 } \text{ㄷ}^{\text{f8}}(+1) \text{38 } \text{ㄷ}^{\text{b4}}(+1) \text{38 } \text{ㄷ}^{\text{a3}}(+1) \text{38 } \text{ㄷ}^{\text{d4}}(+1) \text{38 } \text{ㄷ}^{\text{e3}}(+1) \text{38 } \text{ㄷ}^{\text{f2}}(+1) \text{38 } \text{ㄷ}^{\text{d5}}(+1) \text{38 } \text{ㄷ}^{\text{e5}}(+1) \text{38 } \text{ㄷ}^{\text{f5+}}(+1) \text{38 } \text{ㄷ}^{\text{c3}}(+1) \text{38 } \text{ㄷ}^{\text{c8}}(+2) \text{38 } \text{ㄷ}^{\text{c6}}(+2) \text{38 } \text{ㄷ}^{\text{d8}}(+2) \text{38 } \text{ㄷ}^{\text{c7}}(+2) \text{38 } \text{ㄷ}^{\text{b6+}}(+2) \text{38 } \text{ㄷ}^{\text{a7}}(+2) \text{38 } \text{ㄷ}^{\text{e7}}(+2) \text{38 }$

♖g1+ (+2) 38 ♜c6+ (+2) 38 ♜c7 (+2) 38  
 ♜c8 (+2) 38 ♜b5 (+2) 38 ♜a5 (+2) 38  
 ♜c4 (+2) 38 ♜c2+ (+2) 38 ♜c1 (+2)  
 38 ... ♜g7 (3)  
 38 ... ♜h7 (-1) ♜h6 (-1)  
 39 ♜g1+ (2)  
 39 ♜g5+ (0) 39 ♜h5 (0) 39 ♜e8 (+1) 39  
 ♜e6 (+1) 39 ♜g4 (+1) 39 ♜f7 (+1) 39 ♜g8  
 (+1) 39 ♜b6 (+1) 39 ♜a7 (+1) 39 ♜d6  
 (+1) 39 ♜b4 (+1) 39 ♜a3 (+1) 39 ♜d4+  
 (+1) 39 ♜e3 (+1) 39 ♜f2 (+1) 39 ♜c6  
 (+1) 39 ♜c7 (+1) 39 ♜c8 (+1) 39 ♜b5  
 (+1) 39 ♜a5 (+1) 39 ♜d5 (+1) 39 ♜e5+  
 (+1) 39 ♜f5 (+1) 39 ♜c4 (+1) 39 ♜c3+  
 (+1) 39 ♜c2 (+1) 39 ♜c1 (+1) 39 ♜d6  
 (+2) 39 ♜d7 (+2) 39 ♜f5+ (+2) 39 ♜d8  
 (+3)  
 39 ... ♜h7 (2)  
 39 ... ♜h6 (0)  
 40 ♜f7 (1)  
 40 ♜f6 (0) 40 ♜f5 (0) 40 ♜g5 (0) 40 ♜f8  
 (+1) 40 ♜e6 (+1) 40 ♜g8 (+1) 40 ♜g2  
 (+1) 40 ♜g3 (+1) 40 ♜g4 (+1) 40 ♜g8+  
 (+1) 40 ♜d6 (+2) 40 ♜e8 (+2) 40 ♜d7  
 (+2) 40 ♜g4 (+2) 40 ♜f2 (+2) 40 ♜e3  
 (+2) 40 ♜d4 (+2) 40 ♜c5 (+2) 40 ♜b6  
 (+2) 40 ♜a7 (+2) 40 ♜h2 (+2) 40 ♜f1  
 (+2) 40 ♜e1 (+2) 40 ♜d1 (+2) 40 ♜c1  
 (+2) 40 ♜b1+ (+2) 40 ♜a1 (+2) 40 ♜h1  
 (+2) 40 ♜d° (+3)  
 40 ... ♜h8 (1) 41 ♜g8# (0)  
 41 ♜f8 (+1) 41 ♜f6 (+1) 41 ♜g4 (+1) 41  
 ♜f5 (+1) 41 ♜g8 (+1) 41 ♜d4+ (+1) 41  
 ♜h2 (+1) 41 ♜g2 (+1) 41 ♜g3 (+1) 41  
 ♜g4 (+1) 41 ♜g5 (+1) 41 ♜a1+ (+1) 41  
 ♜h1 (+1) 41 ♜e8 (+2) 41 ♜e6 (+2) 41  
 ♜e7 (+2) 41 ♜f2 (+2) 41 ♜e3 (+2) 41  
 ♜c5 (+2) 41 ♜b6 (+2) 41 ♜a7 (+2) 41  
 ♜f1 (+2) 41 ♜e1 (+2) 41 ♜d1 (+2) 41  
 ♜c1 (+2)

3.5 Fig.5 gives 15 examples of unan-  
 notated optimal play (to conversion  
 this time, not ultimate) in 1033. It is  
 noteworthy how some solutions skirt  
 the Karstedt draw, just as optimal  
 play in 1060 skirts the Lolli draw. N  
 represents knight.

=0 \*  
 =wq b4  
 =wk a7  
 =bn d7

=bb e3  
 =bk c6  
 1. Ka8 Bc5  
 2. Qb1 Bb6  
 3. Qh1+ Kc7  
 4. Qb7+ Kd6  
 5. Qc8 Bc7  
 6. Qh8 Nc5  
 7. Qh1 Bb6  
 8. Kb8 Ne6  
 9. Qh7 Bd8  
 10. Ka7 Kc6  
 11. Qh1+ Kd6  
 12. Ka6 Nd4  
 13. Qh8 Ne6  
 14. Kb5 Kd5  
 15. Qh5+ Bg5  
 16. Qf3+ Ke5  
 17. Kc4 Bf4  
 18. Qd5+ Kf6  
 19. Qe4 Bc7  
 20. Qc6 Ke5  
 21. Qb5+ Kd6  
 22. Qb2 Nf4  
 23. Qb4+ Ke6  
 24. Kd4 Be5+  
 25. Ke4 Ng6  
 26. Qd2 Kf6  
 27. Qf2+ Kg5  
 28. Qb6 Bh8  
 29. Qd8+ Kg4  
 30. Qd2 Kh5  
 31. Kf5 Ne7+  
 32. Ke6 Ng6  
 33. Qd8 Kh6  
 34. Kf7 Ne5+  
 35. Kg8 Ng6  
 36. Qd2+ Kh5  
 37. Kh7 Ba1  
 38. Qd1+ Kh4  
 39. K: g6

=0 \*  
 =wq a1  
 =wk c1  
 =bn b2  
 =bb c3  
 =bk b3  
 1. Kb1 Nc4  
 2. Qa2+ Kb4  
 3. Kc2 Be5

4. Qa7	Kb5	11. Qb7+	Bb6
5. Kd3	Na5	12. Qd7+	Kc5
6. Ke4	Nc6	13. Qd5+	Kb4
7. Qf7	Kc5	14. Kd7	Ka4
8. Qd5+	Kb6	15. Qd1+	Kb5
9. Qc4	Bb8	16. Qf1+	Ka5
10. Kd5	Ne7+	17. Qf5+	Kb4
11. Ke6	Nc6	18. Kc6	Bc5
12. Qb3+	Kc7	19. Qd3	Nb8+
13. Kd5	Nd8	20. Kb7	Ba7
14. Kc5	Nb7+	21. K:a7	
15. Kb5	Nd6+		
16. Ka6	Kc8	=0 *	
17. Qg8+	Kc7	=wq g1	
18. Qf8	Nc8	=wk a8	
19. Qc5+	Kd8	=bn c6	
20. Kb7	Kd7	=bb d6	
21. Q:c8+		=bk c7	
		1. Qe3	Bf8
=0 *		2. Qd3	Kb6
=wq g1		3. Qd7	Bb4
=wk e5		4. Qb7+	Kc5
=bn g3		5. Qa6	Na5
=bb h3		6. Qg6	Kd4
=bk g4		7. Qg5	Kc3
1. Qd1+	Kh4	8. Kb8	Nc6+
2. Qd4+	Bg4	9. Kc7	Nd4
3. Qf2	Kh3	10. Qc1+	Kb3
4. Kf4	Ne2+	11. Kd7	Bc3
5. Kg5	Ng3	12. Qf1	Bb2
6. Qe3	Bd1	13. Qb1	Kc3
7. Kf4	Be2	14. Qa2	Nc2
8. Q:g3++		15. Kd6	Nb4
		16. Qg8	Nc2
=0 *		17. Kd5	Nb4+
=wq a4		18. Ke4	Kc2
=wk a8		19. Qc4+	Bc3
=bn a5		20. Ke3	Kb2
=bb c5		21. Kf2	Bd2
=bk a6		22. Ke2	Bc3
1. Kb8	Kb6	23. Kd1	Na2
2. Kc8	Nc6	24. Qe2+	Kb3
3. Kd7	Nb4	25. Qc2+	Ka3
4. Qa1	Nd3	26. Ke2	Bb2
5. Qc3	Nb4	27. Qd3+	Bc3
6. Qc4	Na6	28. Qh3	Kb2
7. Qe6+	Kb5	29. Kd3	Kb3
8. Qc6+	Ka5	30. Qe6+	Kb2
9. Ke6	Bd4	31. Kc4	Nc1
10. Qa8	Kb5	32. Qe3	Bh8
		33. Qf4	Kb1

34. Qe4+	Kb2	=bb c3	
35. Qb7+	Kc2	=bk d3	
36. Qh7+	Kb2	1. Qh4	Be5
37. Q:h8+		2. Qd8+	Ke4
		3. Qe8	Nc4
=0 *		4. Qg6+	Kd4
=wq g1		5. Kd1	Ke3
=wk a8		6. Qe6	Kd4
=bn c6		7. Ke2	Bd6
=bb d5		8. Qg4+	Kd5
=bk c7		9. Qg1	Bc7
1. Qg7+	Kb6	10. Qg2+	Kd4
2. Qb7+	Kc5	11. Qf2+	Kc3
3. Qc7	Bg2	12. Qg1	Be5
4. Kb7	Bf3	13. Qd1	Nb2
5. Qc8	Kd4	14. Qd2+	Kc4
6. Qd7+	Ke3	15. Qa5	Bc3
7. Kc7	Ne5	16. Qa3	Be5
8. Qg7	Kf4	17. Qa6+	Kc5
9. Qh7	Ke3	18. Qa5+	Kd4
10. Kd6	Nd3	19. Qb6+	Kc4
11. Qh3	Ke4	20. Kd2	Kd5
12. Qh6	Kd4	21. Qb5+	Ke4
13. Qe6	Be4	22. Qb7+	Kf4
14. Qh3	Ne1	23. Qb4+	Kg5
15. Qf1	Nc2	24. Ke2	Bh8
16. Qg1+	Kc3	25. Qc5+	Kh6
17. Ke5	Bh7	26. Qf5	Bg7
18. Qc5+	Kd2	27. Kf3	Bc3
19. Kf4	Bg6	28. Kg4	Bh8
20. Kf3	Ne1+	29. Qf7	Nd3
21. Kg3	Bc2	30. Qf8+	Bg7
22. Qf2+	Kd1	31. Qd6+	Kh7
23. Qh2	Nd3	32. Q:d3+	
24. Kf3	Nb2		
25. Ke3	Kc1	=0 *	
26. Kd4	Ba4	=wq e1	
27. Kc3	Nd1+	=wk d1	
28. Kb4	Bc2	=bn d4	
29. Qf4+	Kb1	=bb c3	
30. Ka3	Bd3	=bk d3	
31. Qh2	Bf5	1. Qf1+	Ke3
32. Qd6	Bc2	2. Qh3+	Nf3
33. Qd2	Nb2	3. Qh6+	Kf2
34. Qb4	Bd3	4. Kc2	Bd2
35. Q:b2++		5. Qd6	Ke2
		6. Qa6+	Ke3
=0 *		7. Qe6+	Kf2
=wq e1		8. Kd3	Bf4
=wk c1		9. Qe2+	Kg3
=bn e3		10. Ke4	Nh4

11. Qe1+	Kg4	4. Qc5	Nc8
12. Qd1+	Kg3	5. Qc2	Bc6
13. Qb3+	Kg4	6. Qh7+	Kd8
14. Qe6+	Kg5	7. Qf7	Ba4
15. Qg8+	Ng6	8. Qc4	Nb6
16. Qd8+	Kh6	9. Qc1	Be8
17. Kf5	Bg3	10. Qc3	Nc8
18. Qf6	Be1	11. Qc5	Bd7
19. Q:g6++		12. Kf6	Be8
		13. Qf8	Kd7
=0 *		14. Ke5	Ne7
=wq a1		15. Qg7	Kd8
=wk a2		16. Qf6	Bb5
=bn c3		17. Kd6	Bd3
=bb d2		18. Qf8++	
=bk c2		=0 *	
1. Ka3	Nb1+	=wq h8	
2. Ka4	Nc3+	=wk a8	
3. Kb4	Nd1+	=bn e5	
4. Kb5	Nb2	=bb c7	
5. Qf1	Bc3	=bk b6	
6. Qe2+	Kb3	1. Qh1	Kc5
7. Qf2	Be5	2. Kb7	Bd6
8. Qf7+	Kc3	3. Qe4	Nc4
9. Kc6	Kd2	4. Kc8	Nb6+
10. Qf2+	Kd3	5. Kd8	Nd5
11. Qf5+	Kd4	6. Qc2+	Kd4
12. Qc2	Nd3	7. Qd1+	Ke5
13. Qa4+	Ke3	8. Kd7	Bb4
14. Kd5	Bb2	9. Qb3	Bd2
15. Qe4+	Kd2	10. Kc6	Ne7+
16. Kc4	Nc1	11. Kc5	Bg5
17. Qh7	Ne2	12. Qb2+	Ke4
18. Qd3+	Ke1	13. Qd4+	Kf5
19. Qb1+	Bc1	14. Kd6	Ng6
20. Kd3	Nf4+	15. Qd5+	Kf6
21. Kc2	Ne2	16. Qe6+	Kg7
22. Qa1	Kf1	17. Qf5	Bf4+
23. Kd1	Bf4	18. Ke6	Nf8+
24. Qa6	Bc7	19. Kd5	Ng6
25. Q:e2+		20. Ke4	Be5
=0 *		21. Qf1	Bf6
=wq d4		22. Kf5	Nh4+
=wk e5		23. Ke6	Bg5
=bn d5		24. Qc4	Kh6
=bb b7		25. Kf7	Kh5
=bk c7		26. Qe2+	Kh6
1. Qa7	Nb6	27. Qg4	Bd8
2. Qa5	Kc6	28. Qg7+	Kh5
3. Qc3+	Kd7	29. Qh8+	Kg4
		30. Q:d8	

=0 \*  
 =wq a8  
 =wk a7  
 =bn e4  
 =bb c6  
 =bk c5  
 1. Qf8+ Kd4  
 2. Qg7+ Kc4  
 3. Qb2 Nc3  
 4. Qc1 Bf3  
 5. Kb6 Kd4  
 6. Qa1 Kc4  
 7. Qf1+ Be2  
 8. Qf4+ Kd5  
 9. Qe3 Kc4  
 10. Kc6 Bd3  
 11. Kd6 Ne2  
 12. Qd2 Nc3  
 13. Ke5 Ne2  
 14. Qa5 Kb3  
 15. Kd5 Kc2  
 16. Qe1 Ba6  
 17. Ke4 Nc3+  
 18. Kd4 Ne2+  
 19. Ke3 Nc3  
 20. Qh4 Nd1+  
 21. Kd4 Nb2  
 22. Qe1 Bd3  
 23. Qc3+ Kb1  
 24. Qd2 Bc2  
 25. Qb4 Kc1  
 26. Qa3 Kb1  
 27. Kc3 Nd1+  
 28. Kd2 Nb2  
 29. Qb4 Bd1  
 30. Kc3 Kc1  
 31. Q:b2++

4.0 Chéron, Lehr- und Hand-buch der Endspiele. Many 5-man positions were tested against data bases in x-xi.85 during the fortnight of AJR's visit to Ken Thompson in New Jersey.

4.1 All 0401 examples have correct verdicts.

4.2 In 0410 two verdicts are in error. 409 (a5a8 0410 a5b7c1) is a draw BTM: 1...Ra7+ 2.Kb6 Kb8! 3.Rf1 Rc7 4.Rf8+ Rc8 5.Rf7 Rc2(c4) 6.Bb4 Kc8 7.Bc5 Kd8 (Re2) 8.Kc6

Re2 9.Bb4 Rc2+ (Re-) 10.Kd6 Ke8 11.Rf1 Re2 (many!) 12.Kc6 Re6 (Rd8) 13.Bd6 Kd8 14.Ra1 Ke8 15 .Ra7 Rh6 (i.a.) 16.Re7+ Kd8 17.Rf7 Re6 18.Rf8+ Re8 19.Rf6 Re1 (i.a.) 20.Bc5 Re2 drawn.

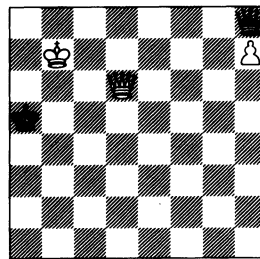
4.3 In 0410 412 (b6b8 0410 h3c7c6) is a draw WTM: 1.Be4 Rc3!

5.0 Averbakh (Russian edition, 1982). Every move in 4000.10 was checked. Errors were to be expected and if one includes departures from optimality many (far too many to enumerate) were found.

5.1 Fig.6 shows the position after 3...Qh8 in Fontana and Roycroft (1st Prize, British Chess Federation, 1957 - see 309 in TTC), and the output from the computer.

## Chess Games

November 9, 1985



Initial Position

### 1 ♖d5+ (14)

1 ♜c5+ (0) 1 ♜c6 (+2) 1 ♜d2+ (+2) 1 ♜a3+ (+3) 1 ♜e7 (+6) 1 ♜d7 (+6) 1 ♜g6 (+6) 1 ♜d3 (+6) 1 ♜a6+ (+12) 1 ♜b6+ (+13) 1 ♜c7+ (+15) 1 ♜h2 (+16)

### 1 ... ♜a4 (14)

1 ... ♜b4 (-10)

### 2 ♜c4+ (13)

2 ♜a2+ (+2) 2 ♜d7+ (+6) 2 ♜f5 (+6) 2 ♜g8 (+7) 2 ♜f7 (+14) 2 ♜d3 (+14) 2 ♜e4+ (+16) 2 ♜c6+ (+18) 2 ♜d1+ (+24)

### 2 ... ♜a5 (13)

2 ... ♜a3 (-10)

### 3 ♜e4 (12)

3 ♜d5+ (+2) 3 ♜c5+ (+2) 3 ♜a2+ (+3) 3



♖g8 (+7) 3 ♗h4 (+7) 3 ♜d3 (+8) 3 ♝c2 (+8) 3 ♞f7 (+9) 3 ♞a6† (+14) 3 ♞c7† (+17)

3 ... ♞b5 (12)

3 ... ♞g7† (0) ♞b2† (0) ♞c3 (-7) ♞a1 (-8) ♞f6 (-9) ♞f8 (-10) ♞d8 (-10)

4 ♞c7 (11)

4 ♞d5† (+3) 4 ♞f5† (+8) 4 ♞b1† (+8) 4 ♞e2† (+8) 4 ♞d3† (+9) 4 ♞e7 (+9) 4 ♞c2 (+11) 4 ♞a7 (+14) 4 ♞g6 (+14) 4 ♞c6† (+15) 4 ♞h4 (+16)

4 ... ♞g7† (11)

4 ... ♞c3† (0) ♞a5 (0) ♞c5 (0) ♞f6 (-9) ♞b2 (-9) ♞a1 (-9) ♞f8 (-9)

5 ♞d6 (10)

5 ♞d8 (0) 5 ♞c8 (+6) 5 ♞b8 (+25)

5 ... ♞f6† (10)

5 ... ♞h6† (0) ♞f8† (-1) ♞b6 (-7) ♞h8 (-8) ♞c3 (-8) ♞b2 (-8) ♞a1 (-8) ♞g3† (-8) ♞a6 (-8) ♞a5 (-8)

6 ♞e6 (9)

6 ♞d7 (+1) 6 ♞c7 (+2) 6 ♞d5 (+2)

6 ... ♞f8† (9)

6 ... ♞d8† (-7) ♞g7 (-7) ♞h8 (-7) ♞d4† (-7) ♞c3 (-7) ♞b2 (-7) ♞a1 (-7) ♞h4 (-7) ♞xe6† (-7) ♞f4† (-7)

7 ♞e7 (8)

7 ♞c7 (+4) 7 ♞d7 (+15)

7 ... ♞h6† (8)

7 ... ♞b8† (-3) ♞xe7† (-6) ♞c8 (-6) ♞a8 (-6) ♞h8 (-6) ♞f4† (-6) ♞f3 (-6)

8 ♞c7 (7)

8 ♞e5 (+8) 8 ♞d5 (+8)

8 ... ♞h2† (7)

8 ... ♞h5 (-1) ♞f4† (-2) ♞b6† (-2) ♞c1† (-3) ♞c6† (-3) ♞c4 (-3) ♞a6 (-5) ♞h3 (-5) ♞h1 (-5) ♞a6 (-5) ♞a4 (-5) ♞a5 (-5)

9 ♞c8 (6)

9 ♞d7 (0) 9 ♞b7 (+7) 9 ♞d8 (+8)

9 ... ♞h5 (6)

9 ... ♞a6 (-3) ♞c2† (-3) ♞c6 (-4) ♞a4 (-4) ♞c4 (-4) ♞b6 (-4) ♞a5 (-4) ♞h3† (-4) ♞h6 (-4) ♞g2 (-4) ♞b2 (-4) ♞a2 (-4) ♞h1 (-4)

10 ♞b8 (5)

10 ♞b7 (+1) 10 ♞d7† (+1) 10 ♞c7 (+1) 10 ♞b7† (+1) 10 ♞d7 (+2) 10 ♞c7 (+2) 10 ♞d8 (+3) 10 ♞e4 (+6)

10 ... ♞h2† (5)

10 ... ♞a4 (0) ♞c4 (0) ♞c6 (-2) ♞a6 (-3) ♞b6 (-3) ♞a5 (-3) ♞h6 (-3) ♞h3 (-3) ♞h1 (-3)

11 ♞c7 (4)

11 ♞a8 (+1) 11 ♞a7 (+2) 11 ♞c8 (+2) 11 ♞b7 (+9)

11 ... ♞h5 (4)

11 ... ♞h3 (-1) ♞h4 (-1) ♞xc7† (-2) ♞h6 (-2) ♞b2 (-2) ♞h1 (-2)

12 ♞d7† (3)

12 ♞a7 (+1) 12 ♞b7† (+2) 12 ♞e7 (+2) 12 ♞c8 (+3) 12 ♞a8 (+19) 12 ♞b7 (+22) 12 ♞c2 (+29)

12 ... ♞a6 (3)

12 ... ♞c5 (0) ♞c4 (-1) ♞b6 (-1) ♞a5 (-1) ♞b4 (-1)

13 ♞a4† (2)

13 ♞c6† (0) 13 ♞d3† (0) 13 ♞d6† (+1) 13 ♞c8† (+2) 13 ♞e6† (+2) 13 ♞a7† (+2) 13 ♞b7† (+3) 13 ♞e7 (+13) 13 ♞c8 (+14) 13 ♞a8 (+20) 13 ♞c7 (+21)

13 ... ♞b6 (2) 14 ♞d4† (1)

14 ♞b3† (+2) 14 ♞b4† (+2) 14 ♞a7† (+3)

14 ... ♞b5 (1) 15 h8♖ (1)



Yuri Bazlov, from Vladivostok in the Soviet Far East.

(with acknowledgement to "64").

6. The 10 study positions of the computer micro test reported in EG63 (ii81) were also solved, later, and with great success, by Ken Thompson's BELLE - only one move gave trouble!

7. The sixth conference in the series Advances in Computer Chess took place in London in viii90. The papers are now published. They include 'To make dumb skill endgame data bases speak', jointly authored by Don Beal and AJR.

8. Lewis Stiller (see EG98) discarded his 5-man data bases. And why? Well, why retain what can be regenerated within a minute or two?! What a world we live in, when all that we need is for everyone to have access to the Connection Machine and to be an ace programmer! In addition to pawnless endings Stiller also generated many data bases with a pawn. Bare statistics are in the ICCA Journal.

c4	d5	e4	b7	3
c4	d5	e6	b3	3
c4	d3	e2	b5	4
d4	e5	f6	c3	5
c4	d3	c2	b5	6
d4	c5	b6	e3	6
d4	c5	d6	a3	8
d4	e5	d6	g3	8
c4	b5	a4	d7	9
d4	c3	b4	e1	10
d4	c5	b4	e7	10

Our thanks go to Peter Jensen and Hans Rasmussen, leading programmers of DEEP THOUGHT in the USA and ChessBase in Germany respectively, for supplying the identical information independently.

\*C\*

ZUGZWANGS in GBR class 0014  
The left-hand column shows the BTM solution depth. The right-hand column is a serial number. This list is ordered by bK square within wK square.

\*C\*

ZUGZWANG POSITIONS IN  
4-MAN PAWNLESS ENDGAMES

GBR class 1300 - none

GBR class 0130 - 5

GBR class 0103 - 18

0130 - R vs. B

wK	wR	bK	bB	depth (BTM)
a3	a1	c2	b1	2
c3	a1	b5	a4	2
c3	g6	a2	f8	11
c3	h5	a4	c1	13
c4	e6	a3	f2	14

0103 - R vs. S

wK	wR	bK	bS	depth (BTM)
c3	d4	c5	b2	1
c3	d4	e5	b2	1
c4	c3	a4	a1	2
c4	c5	a4	a7	2
c3	c4	a3	a6	3
c4	d5	c6	b3	3
c4	d3	e4	b1	3

wK	wB	wS	bK	bS		
05	a2	c5	e4	a4	d1	001
03	a2	d2	d3	a4	d1	002
06	a2	d2	e4	a4	d1	003
03	a2	d2	h1	a4	d1	004
03	a2	d2	h3	a4	d1	005
05	a2	d4	c2	a4	d1	006
05	a2	d4	d3	a4	d1	007
03	a2	e1	f1	a4	d1	008
03	a2	e1	f5	a4	d1	009
03	a2	e1	g2	a4	d1	010
07	a2	e4	a4	a4	e1	011
09	a2	f4	b3	a4	f1	012
09	a2	b5	b1	c2	b8	013
04	a2	f2	b3	c3	b1	014
52	a3	a2	a7	a1	a6	015
62	a3	a2	h1	a1	c5	016
18	a3	b4	c3	a1	c5	017
30	a3	c5	e3	a1	c6	018
29	a3	c5	f2	a1	c6	019
59	a3	f1	b2	a1	c6	020
56	a3	c2	a7	a1	d3	021
49	a3	h5	g2	a1	d3	022

50	a3	d5	c3	a1	d4	023	41	a3	d1	a2	b1	h2	074
13	a3	b4	e2	a1	e4	024	03	a3	b2	d4	b1	h4	075
62	a3	c2	b2	a1	e4	025	23	a3	b2	e1	b1	h4	076
13	a3	e3	f1	a1	e4	026	49	a3	d1	a2	b1	h4	077
12	a3	e3	f5	a1	e4	027	48	a4	f5	d1	a1	d5	078
38	a3	e3	h3	a1	e4	028	18	a4	a3	c5	a1	f2	079
11	a3	f4	a6	a1	e4	029	60	a4	e2	f2	a2	a3	080
11	a3	f4	b7	a1	e4	030	13	a4	d8	b3	a2	a6	081
35	a3	f4	d3	a1	e4	031	13	a4	d4	h7	a2	a8	082
15	a3	f4	d7	a1	e4	032	02	a4	b4	d1	a2	b1	083
59	a3	h5	f8	a1	e5	033	02	a4	b4	d3	a2	b1	084
30	a3	f4	b8	a1	e7	034	27	a4	c5	d3	a2	c2	085
30	a3	f4	d8	a1	e7	035	20	a4	a3	b5	a2	c6	086
26	a3	f4	f8	a1	e7	036	17	a4	a3	e2	a2	c6	087
58	a3	g4	c7	a1	e7	037	27	a4	c1	d4	a2	c7	088
05	a3	f2	f3	a1	f1	038	12	a4	d4	f8	a2	c7	089
48	a3	g4	c7	a1	f4	039	38	a4	g7	d4	a2	c7	090
25	a3	f4	e6	a1	f5	040	24	a4	c1	e2	a2	d5	091
52	a3	a2	h3	a1	g3	041	10	a4	d4	g6	a2	d5	092
35	a3	e3	g1	a1	g3	042	29	a4	g6	d2	a2	d6	093
64	a3	f3	h2	a1	g3	043	21	a4	a3	c7	a2	d8	094
28	a3	f4	f8	a1	h4	044	21	a4	a3	d6	a2	d8	095
36	a3	e3	h3	a1	h5	045	18	a4	a3	f4	a2	d8	096
03	a3	d3	d4	a5	d2	046	18	a4	a3	g1	a2	d8	097
03	a3	d3	e1	a5	d2	047	18	a4	a3	g3	a2	d8	098
06	a3	d3	e5	a5	d2	048	25	a4	c1	d4	a2	e7	099
03	a3	d3	g1	a5	d2	049	60	a4	c2	d3	a2	f6	100
03	a3	d3	h2	a5	d2	050	15	a4	f4	d3	a2	g4	101
03	a3	d3	h4	a5	d2	051	25	a4	d4	d3	a2	h7	102
05	a3	e2	f2	a5	d2	052	60	a4	e7	d5	a6	b7	103
05	a3	e2	f6	a5	d2	053	09	a4	e3	d2	a6	c1	104
05	a3	e2	g3	a5	d2	054	07	a4	d4	g2	a6	d3	105
05	a3	g2	d6	a5	d2	055	08	a4	e3	f3	a6	d3	106
04	a3	e3	f1	a5	e2	056	11	a4	c5	d4	a6	g1	107
04	a3	e3	h1	a5	e2	057	58	a4	b3	d3	b1	c2	108
04	a3	e3	h5	a5	e2	058	18	a4	a3	e1	b1	f7	109
61	a3	a4	d1	b1	a2	059	06	a4	b7	a3	c3	a7	110
27	a3	e1	b4	b1	a5	060	06	a4	b7	a5	c3	a7	111
21	a3	e3	d4	b1	a6	061	06	a4	b7	b3	c4	a7	112
45	a3	b3	b4	b1	b2	062	04	a4	d3	b5	c5	a1	113
30	a3	b4	e3	b1	b6	063	05	a4	b4	b5	c6	b1	114
39	a3	d1	b2	b1	c1	064	01	b2	c3	b7	a4	b3	115
38	a3	d1	c5	b1	c1	065	02	b2	c4	a3	b4	c1	116
38	a3	d1	f2	b1	c1	066	05	b2	d5	f4	b4	e1	117
21	a3	e3	d4	b1	d7	067	03	b2	e2	e3	b4	e1	118
21	a3	e3	d4	b1	e4	068	06	b2	e4	a3	b4	e1	119
49	a3	a4	a2	b1	e7	069	05	b2	e4	d2	b4	e1	120
13	a3	b2	d4	b1	e7	070	05	b2	e4	e3	b4	e1	121
40	a3	b3	a2	b1	f8	071	03	b2	f1	g1	b4	e1	122
03	a3	b2	d4	b1	g1	072	03	b2	f1	g5	b4	e1	123
51	a3	b3	a2	b1	g7	073	03	b2	f1	h2	b4	e1	124

07	b2	f4	b3	b4	f1	125	21	b3	a3	g2	b1	d3	176
08	b2	g4	a3	b4	g1	126	28	b3	a3	g6	b1	d3	177
09	b2	g4	c3	b4	g1	127	26	b3	a3	a6	b1	d5	178
09	b2	e3	a3	b4	h3	128	26	b3	a3	a8	b1	d5	179
01	b3	a2	b4	a1	a3	129	22	b3	a3	b7	b1	d5	180
01	b3	a2	d4	a1	a3	130	22	b3	a3	c8	b1	d5	181
01	b3	a2	e1	a1	a3	131	28	b3	a3	d7	b1	d5	182
01	b3	a2	e3	a1	a3	132	22	b3	a3	e8	b1	d5	183
47	b3	e2	b6	a1	b2	133	22	b3	a3	f7	b1	d5	184
10	b3	e2	e3	a1	b2	134	08	b3	a3	g2	b1	d5	185
34	b3	e2	f2	a1	b2	135	28	b3	a3	g6	b1	d5	186
50	b3	e2	f6	a1	b2	136	29	b3	e3	h6	b1	d6	187
39	b3	e2	g5	a1	b2	137	28	b3	a3	a6	b1	d7	188
63	b3	c2	b8	a1	d3	138	28	b3	a3	a8	b1	d7	189
01	b3	a2	a3	a1	e1	139	26	b3	a3	b7	b1	d7	190
01	b3	a2	a3	a1	e3	140	26	b3	a3	c8	b1	d7	191
02	b3	a2	b1	a1	g2	141	04	b3	a3	f7	b1	d7	192
02	b3	a2	c4	a1	g2	142	17	b3	a3	b8	b1	d8	193
59	b3	d5	h2	a1	g3	143	23	b3	a3	h6	b1	d8	194
02	b3	a2	b1	a1	g4	144	65	b3	a4	f8	b1	d8	195
02	b3	a2	c4	a1	g4	145	23	b3	b2	f5	b1	d8	196
01	b3	c4	b8	a5	b4	146	36	b3	a3	h3	b1	e1	197
31	b3	a4	f4	b1	a2	147	12	b3	a3	b5	b1	e2	198
39	b3	d1	f2	b1	a2	148	20	b3	a3	e6	b1	e2	199
29	b3	a3	h8	b1	b2	149	27	b3	e5	b6	b1	e3	200
03	b3	e2	b5	b1	b2	150	26	b3	a3	b5	b1	e4	201
09	b3	e2	d5	b1	b2	151	02	b3	a3	c4	b1	e4	202
33	b3	e2	e4	b1	b2	152	31	b3	a3	d1	b1	e4	203
29	b3	b2	e6	b1	b4	153	10	b3	a3	f1	b1	e4	204
29	b3	b2	g6	b1	b4	154	10	b3	a3	f3	b1	e4	205
34	b3	d1	e2	b1	b5	155	12	b3	b4	e2	b1	e4	206
10	b3	e3	d1	b1	b5	156	08	b3	e3	d1	b1	e4	207
23	b3	a3	h8	b1	b6	157	12	b3	e3	f1	b1	e4	208
05	b3	b4	a2	b1	b7	158	11	b3	e3	f5	b1	e4	209
29	b3	b2	a8	b1	b8	159	28	b3	e3	h1	b1	e4	210
27	b3	b2	c8	b1	b8	160	35	b3	e3	h3	b1	e4	211
19	b3	b2	a7	b1	c2	161	12	b3	e3	h5	b1	e4	212
25	b3	b2	b6	b1	c2	162	10	b3	f4	a6	b1	e4	213
26	b3	b2	e5	b1	c2	163	10	b3	f4	b7	b1	e4	214
27	b3	b2	f4	b1	c2	164	09	b3	f4	d3	b1	e4	215
29	b3	c5	e3	b1	c6	165	14	b3	f4	d7	b1	e4	216
28	b3	c5	f2	b1	c6	166	23	b3	e7	f2	b1	e5	217
58	b3	f1	b2	b1	c6	167	58	b3	h5	f8	b1	e5	218
05	b3	a3	a7	b1	c7	168	04	b3	a3	c2	b1	e6	219
27	b3	a3	b8	b1	c7	169	16	b3	a3	c6	b1	e6	220
17	b3	a3	e7	b1	c7	170	22	b3	a3	f5	b1	e6	221
23	b3	a3	h6	b1	c7	171	29	b3	f4	b8	b1	e7	222
17	b3	b2	c6	b1	c7	172	29	b3	f4	d8	b1	e7	223
23	b3	b2	f5	b1	c7	173	25	b3	f4	f8	b1	e7	224
26	b3	a3	a6	b1	d1	174	57	b3	g4	c7	b1	e7	225
26	b3	a3	a8	b1	d1	175	04	b3	a3	a6	b1	e8	226

04	b3	a3	a8	b1	e8	227	11	b3	a3	g1	b1	g3	278
04	b3	a3	b7	b1	e8	228	21	b3	a3	g5	b1	g3	279
04	b3	a3	c8	b1	e8	229	34	b3	e3	g1	b1	g3	280
24	b3	a3	d7	b1	e8	230	58	b3	f3	h2	b1	g3	281
04	b3	a3	f7	b1	e8	231	60	b3	g2	a2	b1	g3	282
18	b3	a3	g8	b1	e8	232	40	b3	g4	a2	b1	g3	283
14	b3	a3	h7	b1	e8	233	47	b3	h7	d3	b1	g3	284
27	b3	a3	a7	b1	f2	234	28	b3	a3	a6	b1	g4	285
09	b3	a3	b2	b1	f2	235	28	b3	a3	a8	b1	g4	286
22	b3	a3	b6	b1	f2	236	26	b3	a3	b7	b1	g4	287
05	b3	a3	c5	b1	f2	237	26	b3	a3	c8	b1	g4	288
27	b3	a3	c7	b1	f2	238	28	b3	a3	d7	b1	g4	289
11	b3	a3	e1	b1	f2	239	26	b3	a3	e8	b1	g4	290
22	b3	a3	e3	b1	f2	240	22	b3	a3	f7	b1	g4	291
22	b3	a3	f6	b1	f2	241	11	b3	a3	e1	b1	g5	292
29	b3	a3	g5	b1	f2	242	29	b3	a3	e3	b1	g5	293
22	b3	a3	h4	b1	f2	243	11	b3	a3	h2	b1	g5	294
01	b3	b2	f1	b1	f3	244	11	b3	a3	h4	b1	g5	295
15	b3	a3	a7	b1	f4	245	30	b3	b2	d8	b1	g6	296
04	b3	a3	c1	b1	f4	246	30	b3	b2	g7	b1	g6	297
29	b3	a3	d8	b1	f4	247	29	b3	a3	b8	b1	g7	298
31	b3	a3	f8	b1	f4	248	27	b3	a3	d8	b1	g7	299
29	b3	a3	g7	b1	f4	249	27	b3	a3	f8	b1	g7	300
57	b3	f3	c5	b1	f4	250	23	b3	a3	h6	b1	g7	301
54	b3	f3	d4	b1	f4	251	10	b3	e3	h6	b1	g7	302
47	b3	g4	c7	b1	f4	252	25	b3	f4	f8	b1	g7	303
49	b3	g4	f6	b1	f4	253	28	b3	a3	a6	b1	h1	304
28	b3	a3	c6	b1	f5	254	28	b3	a3	a8	b1	h1	305
26	b3	a3	e6	b1	f5	255	14	b3	a3	b7	b1	h1	306
24	b3	f4	e6	b1	f5	256	12	b3	a3	c6	b1	h1	307
03	b3	a3	a5	b1	f6	257	16	b3	a3	c8	b1	h1	308
27	b3	a3	a7	b1	f6	258	28	b3	a3	d7	b1	h1	309
03	b3	a3	b6	b1	f6	259	12	b3	a3	e6	b1	h1	310
03	b3	a3	c5	b1	f6	260	16	b3	a3	e8	b1	h1	311
27	b3	a3	c7	b1	f6	261	14	b3	a3	f7	b1	h1	312
03	b3	a3	d6	b1	f6	262	23	b3	a3	h7	b1	h1	313
11	b3	a3	e1	b1	f6	263	28	b3	a3	a6	b1	h3	314
03	b3	a3	e3	b1	f6	264	28	b3	a3	a8	b1	h3	315
03	b3	a3	e5	b1	f6	265	30	b3	a3	h7	b1	h3	316
03	b3	a3	g5	b1	f6	266	26	b3	g3	d5	b1	h3	317
11	b3	a3	h2	b1	f6	267	29	b3	h2	b2	b1	h3	318
11	b3	a3	h4	b1	f6	268	03	b3	a3	e1	b1	h4	319
13	b3	b4	f4	b1	f6	269	25	b3	f4	f8	b1	h4	320
17	b3	b2	c6	b1	f8	270	28	b3	a3	a6	b1	h5	321
23	b3	b2	f5	b1	f8	271	28	b3	a3	a8	b1	h5	322
27	b3	a3	a7	b1	g1	272	16	b3	a3	b7	b1	h5	323
27	b3	a3	a7	b1	g3	273	16	b3	a3	c6	b1	h5	324
27	b3	a3	c5	b1	g3	274	16	b3	a3	c8	b1	h5	325
27	b3	a3	c7	b1	g3	275	28	b3	a3	d3	b1	h5	326
11	b3	a3	d4	b1	g3	276	28	b3	a3	d7	b1	h5	327
13	b3	a3	d6	b1	g3	277	12	b3	a3	e6	b1	h5	328

16	b3	a3	f5	b1	h5	329	18	b4	a3	f5	a2	c8	380
16	b3	a3	f7	b1	h5	330	10	b4	a3	a4	a2	d1	381
12	b3	a3	h3	b1	h5	331	10	b4	a3	b5	a2	d1	382
30	b3	a3	h7	b1	h5	332	10	b4	a3	d5	a2	d1	383
35	b3	e3	h3	b1	h5	333	10	b4	a3	e4	a2	d1	384
29	b3	a3	b8	b1	h6	334	36	b4	a3	d6	a2	d2	385
27	b3	a3	d8	b1	h6	335	50	b4	e4	b3	a2	e5	386
27	b3	a3	f8	b1	h6	336	37	b4	a3	f5	a2	f1	387
02	b3	a3	a4	b5	a2	337	17	b4	a3	c5	a2	f2	388
03	b3	e3	e4	b5	e2	338	61	b4	f5	a4	a2	f2	389
03	b3	e3	f1	b5	e2	339	67	b4	f3	d1	a2	f6	390
03	b3	e3	h1	b5	e2	340	18	b4	c1	a3	a2	g2	391
03	b3	e3	h5	b5	e2	341	53	b4	f3	a4	a2	g3	392
04	b3	f3	g1	b5	f2	342	62	b4	h7	d3	a2	g3	393
09	b3	e4	a4	b5	h4	343	41	b4	e5	b6	a2	g8	394
23	b3	f5	f6	b7	f2	344	18	b4	a3	e6	a2	h3	395
01	b3	e2	c3	c1	b2	345	40	b4	e5	c4	a2	h6	396
37	b3	b7	b2	c1	b4	346	29	b4	e6	a5	a6	b6	397
23	b3	b4	e3	c1	b6	347	27	b4	e6	d6	a6	b6	398
07	b3	f5	c3	c1	b6	348	28	b4	e6	d8	a6	b6	399
18	b3	c3	c4	c1	c2	349	04	b4	e7	d7	a6	b7	400
05	b3	e1	c2	c1	d1	350	43	b4	b3	h1	b1	h2	401
07	b3	e1	d5	c1	d1	351	47	b4	c6	a3	b2	b6	402
14	b3	e1	g2	c1	d1	352	62	b4	a4	a6	b2	b7	403
01	b3	c2	e4	c1	h1	353	60	b4	a4	b3	b2	b7	404
04	b3	b8	c4	c5	a4	354	32	b4	e4	c7	b2	b8	405
13	b3	f4	c2	d1	b5	355	13	b4	g6	d2	b2	d6	406
02	b3	d4	c2	d3	a4	356	31	b4	e4	d5	b2	d7	407
03	b3	a7	a8	d3	a6	357	29	b4	h6	e1	b2	d7	408
03	b3	a7	e8	d3	a6	358	66	b4	a4	f8	b2	d8	409
03	b3	b6	c6	d3	a6	359	57	b4	a4	e1	b2	e5	410
05	b3	d6	b5	d3	a6	360	52	b4	a4	f2	b2	e5	411
06	b3	d6	c2	d3	a6	361	49	b4	e4	c5	b2	e5	412
05	b3	d6	c6	d3	a6	362	29	b4	e4	e3	b2	e5	413
05	b3	e5	d7	d3	a6	363	62	b4	e4	f2	b2	e5	414
07	b3	d7	c3	d3	a7	364	60	b4	a4	e3	b2	e7	415
24	b3	a5	g3	d3	a8	365	05	b4	f4	a3	b2	f1	416
24	b3	a5	g5	d3	a8	366	60	b4	a4	d7	b2	f7	417
07	b3	f5	c3	e1	b6	367	59	b4	a4	e4	b2	f7	418
16	b4	a3	d4	a2	a1	368	22	b4	f8	f3	b2	f7	419
27	b4	e5	c7	a2	a3	369	59	b4	a4	g2	b2	g6	420
25	b4	e5	e3	a2	a3	370	34	b4	g6	f2	b2	g7	421
27	b4	e5	e7	a2	a3	371	08	b4	h4	a3	b2	h1	422
27	b4	e5	f6	a2	a3	372	04	b4	e3	a3	b2	h3	423
28	b4	d4	b5	a2	b1	373	24	b4	h7	f2	b2	h6	424
28	b4	e1	d1	a2	b1	374	06	b4	c4	a5	b6	c1	425
17	b4	e1	d3	a2	b1	375	13	b4	h2	b2	b6	c1	426
24	b4	e5	d5	a2	b1	376	07	b4	h2	e6	b6	e2	427
17	b4	a3	e3	a2	b6	377	21	b4	f5	f6	b6	f2	428
63	b4	f5	e3	a2	c1	378	09	b4	e5	a5	b6	h5	429
64	b4	g6	c5	a2	c1	379	10	b4	c5	d4	b7	g1	430

06	b4	f6	c4	c2	b7	431	17	c3	c1	e3	a2	e7	482
07	b4	c2	a6	c6	b2	432	33	c3	c1	f6	a2	e7	483
06	b4	f5	c3	d2	b6	433	13	c3	d2	b5	a2	e7	484
05	b4	a4	a3	d3	a1	434	36	c3	e5	b6	a2	e7	485
03	b4	e1	c4	d3	a4	435	35	c3	e3	a8	a2	f3	486
07	b4	c7	b1	d3	b7	436	64	c3	b5	e3	a2	f4	487
05	b4	c7	b5	d3	b7	437	23	c3	c5	d2	a2	f4	488
22	b4	a4	f7	d4	a1	438	25	c3	c5	g1	a2	f4	489
22	b4	a4	g4	d4	a1	439	21	c3	c5	g3	a2	f4	490
22	b4	a4	g6	d4	a1	440	55	c3	c6	d4	a2	f4	491
12	b4	c4	e7	d4	a7	441	57	c3	f3	b8	a2	f4	492
05	b4	d7	b6	d4	a7	442	55	c3	f3	c5	a2	f4	493
06	b4	d7	c3	d4	a7	443	32	c3	c1	h5	a2	f5	494
06	b4	d7	c7	d4	a7	444	14	c3	e1	b5	a2	f5	495
05	b4	e6	d8	d4	a7	445	33	c3	e5	c4	a2	f5	496
23	b4	a5	f2	d4	a8	446	41	c3	f8	d1	a2	f5	497
23	b4	a5	g3	d4	a8	447	31	c3	c2	c7	a2	f6	498
23	b4	a5	g5	d4	a8	448	30	c3	d4	g5	a2	f8	499
06	b4	c7	c3	d4	b7	449	27	c3	c5	h1	a2	g2	500
07	b4	e3	c5	d5	b1	450	24	c3	f2	d2	a2	g2	501
06	b4	c2	c5	d5	b2	451	33	c3	d4	c2	a2	g4	502
05	b4	f3	c5	d6	b2	452	16	c3	e1	b5	a2	g4	503
06	b4	f6	c4	e2	b7	453	35	c3	e7	f7	a2	g4	504
08	b4	b5	d4	f4	b8	454	65	c3	b5	d1	a2	g6	505
18	c3	b2	g1	a2	a1	455	65	c3	b5	f1	a2	g6	506
19	c3	b2	g3	a2	a1	456	65	c3	b5	g4	a2	g6	507
08	c3	d3	d2	a2	a3	457	34	c3	c1	h7	a2	g6	508
44	c3	e8	d1	a2	a3	458	17	c3	e1	a7	a2	g7	509
27	c3	b2	g1	a2	a5	459	15	c3	e1	c7	a2	g7	510
27	c3	b2	g3	a2	a5	460	65	c3	b5	d1	a2	h3	511
17	c3	c1	a3	a2	a7	461	34	c3	e5	b2	a2	h4	512
27	c3	e5	c4	a2	a7	462	36	c3	e5	b6	a2	h4	513
31	c3	f4	a6	a2	a7	463	65	c3	b5	f1	a2	h5	514
22	c3	b2	c6	a2	b3	464	65	c3	b5	g4	a2	h5	515
15	c3	b2	d3	a2	b3	465	38	c3	e5	b2	a2	h6	516
17	c3	b2	e2	a2	b3	466	19	c3	a5	b6	a3	a6	517
46	c3	b5	f1	a2	b3	467	17	c3	a6	b2	a3	a7	518
13	c3	d2	b5	a2	b6	468	34	c3	e7	c5	a3	a7	519
23	c3	e5	c2	a2	c1	469	11	c3	c2	e3	a3	b6	520
65	c3	c6	d1	a2	c5	470	29	c3	c2	c8	a3	b7	521
21	c3	c1	c2	a2	c6	471	21	c3	c2	f5	a3	b7	522
20	c3	c1	c8	a2	c6	472	20	c3	d8	e7	a3	b8	523
21	c3	f6	c2	a2	c6	473	01	c3	b3	a7	a3	c7	524
61	c3	c2	f4	a2	c7	474	57	c3	c6	b8	a3	c7	525
35	c3	e5	e6	a2	c8	475	22	c3	b8	b2	a3	c8	526
59	c3	a4	e3	a2	d6	476	12	c3	c2	f5	a3	c8	527
52	c3	c6	c2	a2	d6	477	62	c3	d7	a4	a3	c8	528
32	c3	c2	a8	a2	d7	478	23	c3	d8	b2	a3	c8	529
32	c3	b6	c5	a2	e5	479	33	c3	f8	c5	a3	c8	530
34	c3	e5	f2	a2	e6	480	53	c3	c6	a1	a3	d6	531
16	c3	e7	d5	a2	e6	481	55	c3	c6	b2	a3	d6	532

53	c3	c6	d4	a3	d6	533	07	c3	e2	b4	c5	h2	584
53	c3	c6	e1	a3	d6	534	09	c3	e2	d4	c5	h2	585
14	c3	c6	e3	a3	d6	535	22	c3	f5	f6	c7	f2	586
55	c3	c6	e5	a3	d6	536	23	c3	g5	g6	c7	g2	587
61	c3	d7	c5	a3	d6	537	05	c3	d3	f2	d5	a3	588
46	c3	d7	f6	a3	d6	538	07	c3	d3	f8	d5	a3	589
46	c3	d7	g3	a3	d6	539	24	c4	g5	d1	a2	b3	590
21	c3	c2	g4	a3	d7	540	31	c4	d2	e4	a2	c6	591
30	c3	c7	e8	a3	d7	541	45	c4	f8	a4	a2	d8	592
16	c3	c7	h5	a3	d7	542	36	c4	c3	b5	a2	f3	593
04	c3	c7	h7	a3	d7	543	06	c4	c2	a8	a3	a4	594
20	c3	d4	c6	a3	d7	544	06	c4	c2	c8	a3	a4	595
18	c3	d8	g6	a3	d7	545	02	c4	d4	d1	a3	a4	596
41	c3	c2	e7	a3	d8	546	02	c4	d4	d3	a3	a4	597
01	c3	b3	a1	a3	e3	547	40	c4	d1	d7	a3	a6	598
01	c3	b3	a5	a3	e3	548	40	c4	d1	a4	a3	a8	599
57	c3	e8	h6	a3	e5	549	40	c4	d1	d7	a3	a8	600
66	c3	b5	a6	a3	e6	550	62	c4	g6	d3	a3	b1	601
56	c3	d1	a6	a3	e6	551	33	c4	b6	e5	a3	b4	602
56	c3	c6	d7	a3	a8	552	33	c4	b6	f4	a3	b4	603
43	c3	b3	c5	a3	f1	553	39	c4	d1	e5	a3	b4	604
58	c3	f3	d1	a3	f1	554	22	c4	c2	e5	a3	b7	605
25	c3	c4	b6	a3	f4	555	30	c4	c3	a6	a3	c6	606
55	c3	d1	b4	a3	f4	556	30	c4	c3	b3	a3	c6	607
22	c3	c2	b4	a3	f6	557	30	c4	c3	d7	a3	c6	608
58	c3	c6	g6	a3	f7	558	11	c4	c2	f4	a3	c7	609
41	c3	c2	b4	a3	g5	559	36	c4	c3	b4	a3	c7	610
56	c3	d7	g3	a3	g5	560	42	c4	d1	g5	a3	c7	611
31	c3	b8	d6	a3	g7	561	20	c4	d7	a5	a3	c7	612
41	c3	c2	f6	a3	g7	562	06	c4	d7	e7	a3	c7	613
11	c3	d2	a7	a3	g7	563	06	c4	d7	f6	a3	c7	614
11	c3	d2	c7	a3	g7	564	30	c4	c7	d1	a3	d7	615
23	c3	c2	d3	a3	g8	565	20	c4	d4	a7	a3	d7	616
35	c3	c2	h5	a3	h3	566	35	c4	c3	d3	a3	e6	617
62	c3	d1	h6	a3	h4	567	35	c4	e5	b2	a3	e6	618
42	c3	c2	d3	a3	h5	568	44	c4	e8	d6	a3	e7	619
32	c3	d1	g7	a3	h6	569	39	c4	c3	a7	a3	f3	620
23	c3	c2	d3	a3	h7	570	39	c4	c3	c7	a3	f3	621
05	c3	d3	a7	a4	a3	571	37	c4	c3	d6	a3	f3	622
05	c3	d3	c7	a4	a3	572	36	c4	f4	d5	a3	f3	623
02	c3	d3	d4	a4	a3	573	38	c4	a1	c3	a3	f8	624
02	c3	d3	d6	a4	a3	574	32	c4	f5	d6	a3	g5	625
19	c3	a6	b4	a4	a5	575	33	c4	c7	d1	a3	g6	626
19	c3	a6	e5	a4	a5	576	35	c4	f6	d1	a3	g6	627
05	c3	c4	d6	a4	c1	577	55	c4	f3	d4	a3	g7	628
16	c3	f3	d1	a5	f1	578	45	c4	e8	e4	a3	g8	629
03	c3	f3	f4	c5	f2	579	40	c4	c3	b7	a3	h2	630
03	c3	f3	g1	c5	f2	580	40	c4	c3	c8	a3	h2	631
09	c3	c4	g5	c5	g1	581	40	c4	c3	e8	a3	h2	632
04	c3	g3	h1	c5	g2	582	51	c4	f6	e8	a3	h3	633
08	c3	c4	e5	c5	h2	583	57	c4	g7	b3	a3	h3	634



27	c4	e4	f4	a4	a7	635	40	c4	c3	e6	a4	f3	686
19	c4	d4	d3	a4	a8	636	38	c4	c3	e8	a4	f3	687
01	c4	b4	b7	a4	b3	637	38	c4	c3	f5	a4	f3	688
32	c4	a1	d4	a4	b4	638	38	c4	c3	f7	a4	f3	689
01	c4	b4	b1	a4	b5	639	59	c4	c3	a1	a4	f4	690
09	c4	c3	e7	a4	b8	640	19	c4	c3	d6	a4	f4	691
19	c4	d8	a5	a4	b8	641	22	c4	c5	b7	a4	f5	692
19	c4	d8	a7	a4	b8	642	03	c4	d2	b5	a4	f5	693
13	c4	d8	d4	a4	b8	643	36	c4	c3	b5	a4	f7	694
05	c4	c5	b1	a4	c2	644	14	c4	c3	c7	a4	f8	695
01	c4	b4	a8	a4	c8	645	21	c4	c3	e3	a4	f8	696
27	c4	g7	b7	a4	c8	646	41	c4	c3	e7	a4	f8	697
03	c4	c1	h1	a4	d1	647	09	c4	c3	f4	a4	f8	698
03	c4	c1	h3	a4	d1	648	28	c4	c7	g7	a4	f8	699
12	c4	c3	a8	a4	d7	649	13	c4	d8	d4	a4	f8	700
08	c4	c3	d5	a4	d7	650	39	c4	b4	e8	a4	g1	701
29	c4	c7	e8	a4	d7	651	39	c4	c3	a7	a4	g1	702
10	c4	c7	h5	a4	d7	652	39	c4	c3	c7	a4	g1	703
03	c4	c7	h7	a4	d7	653	32	c4	c3	e3	a4	g1	704
19	c4	d4	c6	a4	d7	654	28	c4	c5	b3	a4	g2	705
12	c4	d8	c6	a4	d7	655	20	c4	c5	b7	a4	g2	706
14	c4	d8	f3	a4	d7	656	28	c4	c5	c6	a4	g2	707
19	c4	d8	f7	a4	d7	657	28	c4	c5	f3	a4	g2	708
06	c4	d8	g6	a4	d7	658	33	c4	c3	d1	a4	g4	709
04	c4	c8	h6	a4	d8	659	43	c4	c7	d1	a4	g4	710
04	c4	c8	h8	a4	d8	660	39	c4	b4	f5	a4	g5	711
29	c4	c5	d2	a4	e1	661	39	c4	c3	c7	a4	g5	712
12	c4	d6	a1	a4	e1	662	36	c4	c3	d6	a4	g5	713
16	c4	b2	h5	a4	e2	663	33	c4	c3	f2	a4	g5	714
14	c4	d2	c2	a4	e2	664	38	c4	c3	g3	a4	g5	715
14	c4	d2	g2	a4	e2	665	22	c4	c3	a8	a4	g6	716
26	c4	e5	c6	a4	e2	666	17	c4	c3	b5	a4	g6	717
30	c4	e5	f3	a4	e2	667	22	c4	c3	c2	a4	g6	718
28	c4	f2	d5	a4	e2	668	23	c4	c3	c8	a4	g6	719
01	c4	b4	a2	a4	e4	669	20	c4	c3	d5	a4	g6	720
25	c4	c7	b1	a4	e4	670	15	c4	c3	e2	a4	g6	721
37	c4	c1	b7	a4	e6	671	20	c4	c3	e8	a4	g6	722
37	c4	c3	e8	a4	e6	672	22	c4	c3	f5	a4	g6	723
18	c4	e7	c6	a4	e6	673	37	c4	c3	f7	a4	g6	724
14	c4	d2	a7	a4	e7	674	30	c4	b8	d6	a4	g7	725
26	c4	d4	b7	a4	e7	675	10	c4	d2	a7	a4	g7	726
36	c4	e4	c1	a4	e7	676	10	c4	d2	c7	a4	g7	727
31	c4	e4	f6	a4	e7	677	39	c4	c3	c2	a4	g8	728
40	c4	c3	a6	a4	f3	678	32	c4	c3	e3	a4	h2	729
40	c4	c3	a8	a4	f3	679	19	c4	c3	f6	a4	h2	730
26	c4	c3	b1	a4	f3	680	54	c4	c3	f3	a4	h3	731
38	c4	c3	b7	a4	f3	681	32	c4	c3	e3	a4	h4	732
38	c4	c3	c8	a4	f3	682	39	c4	c3	h6	a4	h4	733
31	c4	c3	d1	a4	f3	683	40	c4	d4	b7	a4	h4	734
22	c4	c3	d3	a4	f3	684	53	c4	c3	g3	a4	h6	735
40	c4	c3	d5	a4	f3	685	26	c4	c3	f1	a4	h7	736

37	c4	c3	f5	a4	h7	737	14	c4	f4	f8	c2	h8	788
13	c4	c1	a7	a5	a1	738	22	c4	f8	h4	c2	h8	789
05	c4	d4	a8	a5	a4	739	05	c4	h2	b2	c6	c1	790
05	c4	d4	c8	a5	a4	740	06	c4	h2	f8	c6	c1	791
02	c4	d4	d5	a5	a4	741	04	c4	h2	a4	c6	e2	792
02	c4	d4	d7	a5	a4	742	05	c4	h2	e6	c6	e2	793
08	c4	d6	a8	a5	a6	743	14	c4	f5	e3	c6	f2	794
06	c4	c6	e3	a5	b1	744	14	c4	f5	f6	c6	f2	795
04	c4	d1	f2	a5	c1	745	13	c4	c5	g6	c6	g2	796
06	c4	f1	b2	a5	c1	746	22	c4	g5	g6	c6	g2	797
07	c4	f1	c5	a5	c1	747	07	c4	g4	h2	c6	g3	798
35	c4	h2	a8	a5	c1	748	07	c4	c5	e6	c6	h3	799
12	c4	c1	c8	a5	c2	749	07	c4	e3	b5	c6	h3	800
09	c4	c5	d2	a5	c2	750	09	c4	e3	d5	c6	h3	801
18	c4	c6	g7	a5	g1	751	09	c4	e3	e1	c6	h3	802
34	c4	g7	d1	a5	g4	752	12	c4	d4	f5	d2	a4	803
23	c4	e3	d8	a5	h7	753	11	c4	a4	b5	d2	a6	804
37	c4	c7	a5	a6	c1	754	13	c4	d7	a3	d2	a6	805
16	c4	f2	g2	a6	e2	755	11	c4	e8	b5	d2	a6	806
58	c4	f4	d7	a6	g4	756	10	c4	d6	g1	d2	a7	807
65	c4	f4	e7	a8	d1	757	34	c4	b2	d4	d2	b1	808
06	c4	a3	b4	b1	a4	758	18	c4	d7	b7	d2	c7	809
19	c4	b4	g3	b1	e8	759	15	c4	d7	g2	d2	c7	810
57	c4	d7	e5	b2	b7	760	58	c4	g6	d4	d2	d8	811
24	c4	d8	d2	b2	b8	761	15	c4	g4	d7	d6	a2	812
10	c4	e4	e3	b2	b8	762	05	c4	d4	f3	d6	a4	813
14	c4	d8	f3	b2	d7	763	14	c4	d1	b1	d6	c1	814
58	c4	d7	f3	b2	d8	764	17	c4	d1	f1	d6	c1	815
35	c4	f4	e3	b2	f3	765	17	c4	d1	f3	d6	c1	816
44	c4	h5	c5	b2	g5	766	20	c4	d1	g6	d6	c1	817
12	c4	f3	b7	b6	a2	767	18	c4	d1	h4	d7	c1	818
08	c4	h2	d8	b6	e2	768	35	c4	d4	g6	e2	d7	819
09	c4	g1	b2	b7	c1	769	16	c4	d7	a4	e3	a8	820
64	c4	f4	d5	b7	d1	770	06	c4	b4	b3	e3	b1	821
30	c4	b4	f5	c1	b8	771	09	c4	d7	c3	e3	c7	822
13	c4	d7	c8	c2	b7	772	17	c4	d7	c5	e3	c7	823
13	c4	d7	e8	c2	b7	773	14	c4	c3	e6	e4	a6	824
13	c4	f6	b3	c2	c6	774	06	c4	b4	d5	e4	b1	825
17	c4	g3	f4	c2	c7	775	07	c4	c8	d4	e4	b4	826
18	c4	b4	h5	c2	e8	776	03	c4	c7	a8	e4	b7	827
21	c4	f8	f3	c2	f7	777	09	c4	e7	c6	e4	b7	828
06	c4	g4	b3	c2	g1	778	07	c4	b5	d3	e4	b8	829
12	c4	g4	d8	c2	g5	779	07	c4	b5	d4	e4	b8	830
09	c4	g4	h6	c2	g5	780	11	c4	d1	c3	e5	c1	831
20	c4	g4	h8	c2	g5	781	16	c4	d1	d2	e5	c1	832
07	c4	c3	e2	c2	h5	782	14	c4	d1	b5	f6	c1	833
09	c4	e5	b3	c2	h5	783	17	c4	d1	f1	f6	c1	834
09	c4	e5	d3	c2	h5	784	08	c4	c5	e4	g4	c8	835
08	c4	e5	e7	c2	h5	785	62	d4	a4	c4	a2	c7	836
15	c4	g5	g2	c2	h5	786	61	d4	d1	d7	a2	g6	837
59	c4	g5	g4	c2	h5	787	22	d4	g7	b7	a2	g8	838



01	b3	b2	f1	b1	f3	244	03	b3	a3	g5	b1	f6	266
01	b3	c2	e4	c1	h1	353	03	b3	a7	a8	d3	a6	357
01	b3	c4	b8	a5	b4	146	03	b3	a7	e8	d3	a6	358
01	b3	e2	c3	c1	b2	345	03	b3	b6	c6	d3	a6	359
01	c3	b3	a1	a3	e3	547	03	b3	e2	b5	b1	b2	150
01	c3	b3	a5	a3	e3	548	03	b3	e3	e4	b5	e2	338
01	c3	b3	a7	a3	c7	524	03	b3	e3	f1	b5	e2	339
01	c4	b4	a2	a4	e4	669	03	b3	e3	h1	b5	e2	340
01	c4	b4	a8	a4	c8	645	03	b3	e3	h5	b5	e2	341
01	c4	b4	b1	a4	b5	639	03	b4	e1	c4	d3	a4	435
01	c4	b4	b7	a4	b3	637	03	c3	f3	f4	c5	f2	579
02	a4	b4	d1	a2	b1	083	03	c3	f3	g1	c5	f2	580
02	a4	b4	d3	a2	b1	084	03	c4	c1	h1	a4	d1	647
02	b2	c4	a3	b4	c1	116	03	c4	c1	h3	a4	d1	648
02	b3	a2	b1	a1	g2	141	03	c4	c7	a8	e4	b7	827
02	b3	a2	b1	a1	g4	144	03	c4	c7	h7	a4	d7	653
02	b3	a2	c4	a1	g2	142	03	c4	d2	b5	a4	f5	693
02	b3	a2	c4	a1	g4	145	03	d4	a7	c3	c6	b2	896
02	b3	a3	a4	b5	a2	337	04	a2	f2	b3	c3	b1	014
02	b3	a3	c4	b1	e4	202	04	a3	e3	f1	a5	e2	056
02	b3	d4	c2	d3	a4	356	04	a3	e3	h1	a5	e2	057
02	c3	d3	d4	a4	a3	573	04	a3	e3	h5	a5	e2	058
02	c3	d3	d6	a4	a3	574	04	a4	d3	b5	c5	a1	113
02	c4	d4	d1	a3	a4	596	04	b3	a3	a6	b1	e8	226
02	c4	d4	d3	a3	a4	597	04	b3	a3	a8	b1	e8	227
02	c4	d4	d5	a5	a4	741	04	b3	a3	b7	b1	e8	228
02	c4	d4	d7	a5	a4	742	04	b3	a3	c1	b1	f4	246
03	a2	d2	d3	a4	d1	002	04	b3	a3	c2	b1	e6	219
03	a2	d2	h1	a4	d1	004	04	b3	a3	c8	b1	e8	229
03	a2	d2	h3	a4	d1	005	04	b3	a3	f7	b1	d7	192
03	a2	e1	f1	a4	d1	008	04	b3	a3	f7	b1	e8	231
03	a2	e1	f5	a4	d1	009	04	b3	b8	c4	c5	a4	354
03	a2	e1	g2	a4	d1	010	04	b3	f3	g1	b5	f2	342
03	a3	b2	d4	b1	g1	072	04	b4	e3	a3	b2	h3	423
03	a3	b2	d4	b1	h4	075	04	b4	e7	d7	a6	b7	400
03	a3	d3	d4	a5	d2	046	04	c3	c7	h7	a3	d7	543
03	a3	d3	e1	a5	d2	047	04	c3	g3	h1	c5	g2	582
03	a3	d3	g1	a5	d2	049	04	c4	c8	h6	a4	d8	659
03	a3	d3	h2	a5	d2	050	04	c4	c8	h8	a4	d8	660
03	a3	d3	h4	a5	d2	051	04	c4	d1	f2	a5	c1	745
03	b2	e2	e3	b4	e1	118	04	c4	h2	a4	c6	e2	792
03	b2	f1	g1	b4	e1	122	04	d4	a5	a7	e6	a3	917
03	b2	f1	g5	b4	e1	123	05	a2	c5	e4	a4	d1	001
03	b2	f1	h2	b4	e1	124	05	a2	d4	c2	a4	d1	006
03	b3	a3	a5	b1	f6	257	05	a2	d4	d3	a4	d1	007
03	b3	a3	b6	b1	f6	259	05	a3	e2	f2	a5	d2	052
03	b3	a3	c5	b1	f6	260	05	a3	e2	f6	a5	d2	053
03	b3	a3	d6	b1	f6	262	05	a3	e2	g3	a5	d2	054
03	b3	a3	e1	b1	h4	319	05	a3	f2	f3	a1	f1	038
03	b3	a3	e3	b1	f6	264	05	a3	g2	d6	a5	d2	055
03	b3	a3	e5	b1	f6	265	05	a4	b4	b5	c6	b1	114

05	b2	d5	f4	b4	e1	117	06	c4	d7	f6	a3	c7	614
05	b2	e4	d2	b4	e1	120	06	c4	d8	g6	a4	d7	658
05	b2	e4	e3	b4	e1	121	06	c4	f1	b2	a5	c1	746
05	b3	a3	a7	b1	c7	168	06	c4	g4	b3	c2	g1	778
05	b3	a3	c5	b1	f2	237	06	c4	h2	f8	c6	c1	791
05	b3	b4	a2	b1	b7	158	06	d4	d3	c3	c6	a3	895
05	b3	d6	b5	d3	a6	360	06	d4	d3	e5	d6	a3	903
05	b3	d6	c6	d3	a6	362	06	d4	e4	c5	b4	e1	864
05	b3	e1	c2	c1	d1	350	06	d4	e4	g4	b4	e1	865
05	b3	e5	d7	d3	a6	363	06	d4	e6	c3	b4	f2	879
05	b4	a4	a3	d3	a1	434	06	d4	f3	c5	d6	b2	905
05	b4	c7	b5	d3	b7	437	07	a2	e4	a4	a4	e1	011
05	b4	d7	b6	d4	a7	442	07	a4	d4	g2	a6	d3	105
05	b4	e6	d8	d4	a7	445	07	b2	f4	b3	b4	f1	125
05	b4	f3	c5	d6	b2	452	07	b3	d7	c3	d3	a7	364
05	b4	f4	a3	b2	f1	416	07	b3	e1	d5	c1	d1	351
05	c3	c4	d6	a4	c1	577	07	b3	f5	c3	c1	b6	348
05	c3	d3	a7	a4	a3	571	07	b3	f5	c3	e1	b6	367
05	c3	d3	c7	a4	a3	572	07	b4	c2	a6	c6	b2	432
05	c3	d3	f2	d5	a3	588	07	b4	c7	b1	d3	b7	436
05	c4	c5	b1	a4	c2	644	07	b4	e3	c5	d5	b1	450
05	c4	d4	a8	a5	a4	739	07	b4	h2	e6	b6	e2	427
05	c4	d4	c8	a5	a4	740	07	c3	d3	f8	d5	a3	589
05	c4	d4	f3	d6	a4	813	07	c3	e2	b4	c5	h2	584
05	c4	h2	b2	c6	c1	790	07	c4	b5	d3	e4	b8	829
05	c4	h2	e6	c6	e2	793	07	c4	b5	d4	e4	b8	830
05	d4	d5	c7	b4	b8	862	07	c4	c3	e2	c2	h5	782
05	d4	e4	e3	b3	e1	854	07	c4	c5	e6	c6	h3	799
05	d4	g4	h2	d6	g3	911	07	c4	c8	d4	e4	b4	826
06	a2	d2	e4	a4	d1	003	07	c4	e3	b5	c6	h3	800
06	a3	d3	e5	a5	d2	048	07	c4	f1	c5	a5	c1	747
06	a4	b7	a3	c3	a7	110	07	c4	g4	h2	c6	g3	798
06	a4	b7	a5	c3	a7	111	07	d4	a1	c4	e6	a4	918
06	a4	b7	b3	c4	a7	112	07	d4	d3	d1	d6	a3	902
06	b2	e4	a3	b4	e1	119	07	d4	d7	f4	b4	e7	869
06	b3	d6	c2	d3	a6	361	07	d4	d7	f8	b4	e7	870
06	b4	c2	c5	d5	b2	451	07	d4	e3	c5	d6	h3	912
06	b4	c4	a5	b6	c1	425	07	d4	e3	d5	d6	h3	913
06	b4	c7	c3	d4	b7	449	07	d4	e4	g5	d6	h4	915
06	b4	d7	c3	d4	a7	443	07	d4	e5	c3	b4	e8	874
06	b4	d7	c7	d4	a7	444	07	d4	e5	c4	b4	e8	875
06	b4	f5	c3	d2	b6	433	07	d4	e5	g5	b4	e8	876
06	b4	f6	c4	c2	b7	431	07	d4	g1	d3	b5	d1	893
06	b4	f6	c4	e2	b7	453	07	d4	g8	c3	a5	f2	842
06	c4	a3	b4	b1	a4	758	08	a4	e3	f3	a6	d3	106
06	c4	b4	b3	e3	b1	821	08	b2	g4	a3	b4	g1	126
06	c4	b4	d5	e4	b1	825	08	b3	a3	g2	b1	d5	185
06	c4	c2	a8	a3	a4	594	08	b3	e3	d1	b1	e4	207
06	c4	c2	c8	a3	a4	595	08	b4	b5	d4	f4	b8	454
06	c4	c6	e3	a5	b1	744	08	b4	h4	a3	b2	h1	422
06	c4	d7	e7	a3	c7	613	08	c3	c4	e5	c5	h2	583

08	c3	d3	d2	a2	a3	457	10	c4	c7	h5	a4	d7	652
08	c4	c3	d5	a4	d7	650	10	c4	d2	a7	a4	g7	726
08	c4	c5	e4	g4	c8	835	10	c4	d2	c7	a4	g7	727
08	c4	d6	a8	a5	a6	743	10	c4	d6	g1	d2	a7	807
08	c4	e5	e7	c2	h5	785	10	c4	e4	e3	b2	b8	762
08	c4	h2	d8	b6	e2	768	10	d4	d7	h4	b4	e7	871
08	d4	a4	b2	d6	a3	901	10	d4	f5	e3	b4	f6	881
08	d4	c5	d3	b5	d1	892	10	d4	g5	g7	c6	g3	898
08	d4	d2	d5	b5	a2	890	11	a3	f4	a6	a1	e4	029
08	d4	d7	c3	b4	a7	860	11	a3	f4	b7	a1	e4	030
08	d4	d7	h7	b4	g8	885	11	a4	c5	d4	a6	g1	107
08	d4	e3	e1	d6	h3	914	11	b3	a3	d4	b1	g3	276
08	d4	e4	d6	d8	h4	916	11	b3	a3	e1	b1	f2	239
09	a2	b5	b1	c2	b8	013	11	b3	a3	e1	b1	f6	263
09	a2	f4	b3	a4	f1	012	11	b3	a3	e1	b1	g5	292
09	a4	e3	d2	a6	c1	104	11	b3	a3	g1	b1	g3	278
09	b2	e3	a3	b4	h3	128	11	b3	a3	h2	b1	f6	267
09	b2	g4	c3	b4	g1	127	11	b3	a3	h2	b1	g5	294
09	b3	a3	b2	b1	f2	235	11	b3	a3	h4	b1	f6	268
09	b3	e2	d5	b1	b2	151	11	b3	a3	h4	b1	g5	295
09	b3	e4	a4	b5	h4	343	11	b3	e3	f5	b1	e4	209
09	b3	f4	d3	b1	e4	215	11	c3	c2	e3	a3	b6	520
09	b4	e5	a5	b6	h5	429	11	c3	d2	a7	a3	g7	563
09	c3	c4	g5	c5	g1	581	11	c3	d2	c7	a3	g7	564
09	c3	e2	d4	c5	h2	585	11	c4	a4	b5	d2	a6	804
09	c4	c3	e7	a4	b8	640	11	c4	c2	f4	a3	c7	609
09	c4	c3	f4	a4	f8	698	11	c4	d1	c3	e5	c1	831
09	c4	c5	d2	a5	c2	750	11	c4	e8	b5	d2	a6	806
09	c4	d7	c3	e3	c7	822	11	d4	a5	c4	e6	a4	919
09	c4	e3	d5	c6	h3	801	11	d4	d7	e5	b4	h4	888
09	c4	e3	e1	c6	h3	802	11	d4	e8	h4	a3	e7	839
09	c4	e5	b3	c2	h5	783	12	a3	e3	f5	a1	e4	027
09	c4	e5	d3	c2	h5	784	12	a4	d4	f8	a2	c7	089
09	c4	e7	c6	e4	b7	828	12	b3	a3	b5	b1	e2	198
09	c4	g1	b2	b7	c1	769	12	b3	a3	c6	b1	h1	307
09	c4	g4	h6	c2	g5	780	12	b3	a3	e6	b1	h1	310
09	d4	c1	d3	b5	d1	891	12	b3	a3	e6	b1	h5	328
09	d4	d5	d6	b4	d8	863	12	b3	a3	h3	b1	h5	331
10	a4	d4	g6	a2	d5	092	12	b3	b4	e2	b1	e4	206
10	b3	a3	f1	b1	e4	204	12	b3	e3	f1	b1	e4	208
10	b3	a3	f3	b1	e4	205	12	b3	e3	h5	b1	e4	212
10	b3	e2	e3	a1	b2	134	12	b4	c4	e7	d4	a7	441
10	b3	e3	d1	b1	b5	156	12	c3	c2	f5	a3	c8	527
10	b3	e3	h6	b1	g7	302	12	c4	c1	c8	a5	c2	749
10	b3	f4	a6	b1	e4	213	12	c4	c3	a8	a4	d7	649
10	b3	f4	b7	b1	e4	214	12	c4	d4	f5	d2	a4	803
10	b4	a3	a4	a2	d1	381	12	c4	d6	a1	a4	e1	662
10	b4	a3	b5	a2	d1	382	12	c4	d8	c6	a4	d7	655
10	b4	a3	d5	a2	d1	383	12	c4	f3	b7	b6	a2	767
10	b4	a3	e4	a2	d1	384	12	c4	g4	d8	c2	g5	779
10	b4	c5	d4	b7	g1	430	12	d4	b5	h4	b3	e7	855

12	d4	d5	c3	b4	d8	861	14	c4	f5	f6	c6	f2	795
12	d4	d5	d6	b4	h2	887	14	d4	a3	e4	c6	d1	897
12	d4	e1	d5	b3	a6	850	14	d4	d7	g4	b4	g8	884
12	d4	e6	c3	b4	f6	880	14	d4	e6	b1	b4	f1	877
12	d4	f5	e3	d6	f2	908	14	d4	e6	b1	b4	h1	886
12	d4	f5	f4	d6	f2	909	15	a3	f4	d7	a1	e4	032
12	d4	f5	f6	d6	f2	910	15	a4	f4	d3	a2	g4	101
13	a3	b2	d4	b1	e7	070	15	b3	a3	a7	b1	f4	245
13	a3	b4	e2	a1	e4	024	15	c3	b2	d3	a2	b3	465
13	a3	e3	f1	a1	e4	026	15	c3	e1	c7	a2	g7	510
13	a4	d4	h7	a2	a8	082	15	c4	c3	e2	a4	g6	721
13	a4	d8	b3	a2	a6	081	15	c4	d7	g2	d2	c7	810
13	b3	a3	d6	b1	g3	277	15	c4	g4	d7	d6	a2	812
13	b3	b4	f4	b1	f6	269	15	c4	g5	g2	c2	h5	786
13	b3	f4	c2	d1	b5	355	15	d4	a4	c1	f6	a3	921
13	b4	g6	d2	b2	d6	406	15	d4	a5	e4	e6	a4	920
13	b4	h2	b2	b6	c1	426	15	d4	e8	d6	b4	h6	889
13	c3	d2	b5	a2	b6	468	16	b3	a3	b7	b1	h5	323
13	c3	d2	b5	a2	e7	484	16	b3	a3	c6	b1	e6	220
13	c4	c1	a7	a5	a1	738	16	b3	a3	c6	b1	h5	324
13	c4	c5	g6	c6	g2	796	16	b3	a3	c8	b1	h1	308
13	c4	d7	a3	d2	a6	805	16	b3	a3	c8	b1	h5	325
13	c4	d7	c8	c2	b7	772	16	b3	a3	e8	b1	h1	311
13	c4	d7	e8	c2	b7	773	16	b3	a3	f5	b1	h5	329
13	c4	d8	d4	a4	b8	643	16	b3	a3	f7	b1	h5	330
13	c4	d8	d4	a4	f8	700	16	b4	a3	d4	a2	a1	368
13	c4	f6	b3	c2	c6	774	16	c3	c7	h5	a3	d7	542
13	d4	d7	e3	b4	e7	867	16	c3	e1	b5	a2	g4	503
13	d4	d7	e5	b4	e7	868	16	c3	e7	d5	a2	e6	481
13	d4	d7	f6	c7	f2	899	16	c3	f3	d1	a5	f1	578
13	d4	f5	e7	b4	f6	882	16	c4	b2	h5	a4	e2	663
13	d4	f5	g6	d6	d1	906	16	c4	d1	d2	e5	c1	832
13	d4	g4	d5	d6	f1	907	16	c4	d7	a4	e3	a8	820
14	b3	a3	b7	b1	h1	306	16	c4	f2	g2	a6	e2	755
14	b3	a3	f7	b1	h1	312	16	d4	d5	c3	a3	h2	840
14	b3	a3	h7	b1	e8	233	16	d4	e4	b6	d6	b2	904
14	b3	e1	g2	c1	d1	352	16	d4	e4	d3	b3	e7	856
14	b3	f4	d7	b1	e4	216	16	d4	e7	d3	b3	a6	851
14	c3	c6	e3	a3	d6	535	17	a4	a3	e2	a2	c6	087
14	c3	e1	b5	a2	f5	495	17	b3	a3	b8	b1	d8	193
14	c4	c3	c7	a4	f8	695	17	b3	a3	e7	b1	c7	170
14	c4	c3	e6	e4	a6	824	17	b3	b2	c6	b1	c7	172
14	c4	d1	b1	d6	c1	814	17	b3	b2	c6	b1	f8	270
14	c4	d1	b5	f6	c1	833	17	b4	a3	c5	a2	f2	388
14	c4	d2	a7	a4	e7	674	17	b4	a3	e3	a2	b6	377
14	c4	d2	c2	a4	e2	664	17	b4	e1	d3	a2	b1	375
14	c4	d2	g2	a4	e2	665	17	c3	a6	b2	a3	a7	518
14	c4	d8	f3	a4	d7	656	17	c3	b2	e2	a2	b3	466
14	c4	d8	f3	b2	d7	763	17	c3	c1	a3	a2	a7	461
14	c4	f4	f8	c2	h8	788	17	c3	c1	e3	a2	e7	482
14	c4	f5	e3	c6	f2	794	17	c3	e1	a7	a2	g7	509

17	c4	c3	b5	a4	g6	717	20	c4	d4	a7	a3	d7	616
17	c4	d1	f1	d6	c1	815	20	c4	d7	a5	a3	c7	612
17	c4	d1	f1	f6	c1	834	20	c4	g4	h8	c2	g5	781
17	c4	d1	f3	d6	c1	816	21	a3	e3	d4	b1	a6	061
17	c4	d7	c5	e3	c7	823	21	a3	e3	d4	b1	d7	067
17	c4	g3	f4	c2	c7	775	21	a3	e3	d4	b1	e4	068
17	d4	d5	f4	a5	h2	843	21	a4	a3	c7	a2	d8	094
18	a3	b4	c3	a1	c5	017	21	a4	a3	d6	a2	d8	095
18	a4	a3	c5	a1	f2	079	21	b3	a3	g2	b1	d3	176
18	a4	a3	e1	b1	f7	109	21	b3	a3	g5	b1	g3	279
18	a4	a3	f4	a2	d8	096	21	b4	f5	f6	b6	f2	428
18	a4	a3	g1	a2	d8	097	21	c3	c1	c2	a2	c6	471
18	a4	a3	g3	a2	d8	098	21	c3	c2	f5	a3	b7	522
18	b3	a3	g8	b1	e8	232	21	c3	c2	g4	a3	d7	540
18	b3	c3	c4	c1	c2	349	21	c3	c5	g3	a2	f4	490
18	b4	a3	e6	a2	h3	395	21	c3	f6	c2	a2	c6	473
18	b4	a3	f5	a2	c8	380	21	c4	c3	e3	a4	f8	696
18	b4	c1	a3	a2	g2	391	21	c4	f8	f3	c2	f7	777
18	c3	b2	g1	a2	a1	455	22	b3	a3	b6	b1	f2	236
18	c3	d8	g6	a3	d7	545	22	b3	a3	b7	b1	d5	180
18	c4	b4	h5	c2	e8	776	22	b3	a3	c8	b1	d5	181
18	c4	c6	g7	a5	g1	751	22	b3	a3	e3	b1	f2	240
18	c4	d1	h4	d7	c1	818	22	b3	a3	e8	b1	d5	183
18	c4	d7	b7	d2	c7	809	22	b3	a3	f5	b1	e6	221
18	c4	e7	c6	a4	e6	673	22	b3	a3	f6	b1	f2	241
18	d4	d5	a2	a4	h2	841	22	b3	a3	f7	b1	d5	184
18	d4	d7	h8	b4	e7	872	22	b3	a3	f7	b1	g4	291
18	d4	e6	f4	c7	f2	900	22	b3	a3	h4	b1	f2	243
19	b3	b2	a7	b1	c2	161	22	b4	a4	f7	d4	a1	438
19	c3	a5	b6	a3	a6	517	22	b4	a4	g4	d4	a1	439
19	c3	a6	b4	a4	a5	575	22	b4	a4	g6	d4	a1	440
19	c3	a6	e5	a4	a5	576	22	b4	f8	f3	b2	f7	419
19	c3	b2	g3	a2	a1	456	22	c3	b2	c6	a2	b3	464
19	c4	b4	g3	b1	e8	759	22	c3	b8	b2	a3	c8	526
19	c4	c3	d6	a4	f4	691	22	c3	c2	b4	a3	f6	557
19	c4	c3	f6	a4	h2	730	22	c3	f5	f6	c7	f2	586
19	c4	d4	c6	a4	d7	654	22	c4	c2	e5	a3	b7	605
19	c4	d4	d3	a4	a8	636	22	c4	c3	a8	a4	g6	716
19	c4	d8	a5	a4	b8	641	22	c4	c3	c2	a4	g6	718
19	c4	d8	a7	a4	b8	642	22	c4	c3	d3	a4	f3	684
19	c4	d8	f7	a4	d7	657	22	c4	c3	f5	a4	g6	723
19	d4	g5	c5	b4	g2	883	22	c4	c5	b7	a4	f5	692
20	a4	a3	b5	a2	c6	086	22	c4	f8	h4	c2	h8	789
20	b3	a3	e6	b1	e2	199	22	c4	g5	g6	c6	g2	797
20	c3	c1	c8	a2	c6	472	22	d4	e4	f4	b2	e7	847
20	c3	d4	c6	a3	d7	544	22	d4	g7	b7	a2	g8	838
20	c3	d8	e7	a3	b8	523	23	a3	b2	e1	b1	h4	076
20	c4	c3	d5	a4	g6	720	23	b3	a3	h6	b1	c7	171
20	c4	c3	e8	a4	g6	722	23	b3	a3	h6	b1	d8	194
20	c4	c5	b7	a4	g2	706	23	b3	a3	h6	b1	g7	301
20	c4	d1	g6	d6	c1	817	23	b3	a3	h7	b1	h1	313



23	b3	a3	h8	b1	b6	157	26	b3	a3	b7	b1	g4	287
23	b3	b2	f5	b1	c7	173	26	b3	a3	c8	b1	d7	191
23	b3	b2	f5	b1	d8	196	26	b3	a3	c8	b1	g4	288
23	b3	b2	f5	b1	f8	271	26	b3	a3	e6	b1	f5	255
23	b3	b4	e3	c1	b6	347	26	b3	a3	e8	b1	g4	290
23	b3	e7	f2	b1	e5	217	26	b3	b2	e5	b1	c2	163
23	b3	f5	f6	b7	f2	344	26	b3	g3	d5	b1	h3	317
23	b4	a5	f2	d4	a8	446	26	c4	c3	b1	a4	f3	680
23	b4	a5	g3	d4	a8	447	26	c4	c3	f1	a4	h7	736
23	b4	a5	g5	d4	a8	448	26	c4	d4	b7	a4	e7	675
23	c3	c2	d3	a3	g8	565	26	c4	e5	c6	a4	e2	666
23	c3	c2	d3	a3	h7	570	27	a3	e1	b4	b1	a5	060
23	c3	c5	d2	a2	f4	488	27	a4	c1	d4	a2	c7	088
23	c3	d8	b2	a3	c8	529	27	a4	c5	d3	a2	c2	085
23	c3	e5	c2	a2	c1	469	27	b3	a3	a7	b1	f2	234
23	c3	g5	g6	c7	g2	587	27	b3	a3	a7	b1	f6	258
23	c4	c3	c8	a4	g6	719	27	b3	a3	a7	b1	g1	272
23	c4	e3	d8	a5	h7	753	27	b3	a3	a7	b1	g3	273
23	d4	a6	d5	b8	g4	894	27	b3	a3	b8	b1	c7	169
23	d4	c2	f4	b4	f2	878	27	b3	a3	c5	b1	g3	274
24	a4	c1	e2	a2	d5	091	27	b3	a3	c7	b1	f2	238
24	b3	a3	d7	b1	e8	230	27	b3	a3	c7	b1	f6	261
24	b3	a5	g3	d3	a8	365	27	b3	a3	c7	b1	g3	275
24	b3	a5	g5	d3	a8	366	27	b3	a3	d8	b1	g7	299
24	b3	f4	e6	b1	f5	256	27	b3	a3	d8	b1	h6	335
24	b4	e5	d5	a2	b1	376	27	b3	a3	f8	b1	g7	300
24	b4	h7	f2	b2	h6	424	27	b3	a3	f8	b1	h6	336
24	c3	f2	d2	a2	g2	501	27	b3	b2	c8	b1	b8	160
24	c4	d8	d2	b2	b8	761	27	b3	b2	f4	b1	c2	164
24	c4	g5	d1	a2	b3	590	27	b3	e5	b6	b1	e3	200
24	d4	d1	b4	b2	b8	844	27	b4	e5	c7	a2	a3	369
25	a3	f4	e6	a1	f5	040	27	b4	e5	e7	a2	a3	371
25	a4	c1	d4	a2	e7	099	27	b4	e5	f6	a2	a3	372
25	a4	d4	d3	a2	h7	102	27	b4	e6	d6	a6	b6	398
25	b3	b2	b6	b1	c2	162	27	c3	b2	g1	a2	a5	459
25	b3	f4	f8	b1	e7	224	27	c3	b2	g3	a2	a5	460
25	b3	f4	f8	b1	g7	303	27	c3	c5	h1	a2	g2	500
25	b3	f4	f8	b1	h4	320	27	c3	e5	c4	a2	a7	462
25	b4	e5	e3	a2	a3	370	27	c4	e4	f4	a4	a7	635
25	c3	c4	b6	a3	f4	555	27	c4	g7	b7	a4	c8	646
25	c3	c5	g1	a2	f4	489	28	a3	f4	f8	a1	h4	044
25	c4	c7	b1	a4	e4	670	28	b3	a3	a6	b1	d7	188
25	d4	d7	d2	b2	d8	846	28	b3	a3	a6	b1	g4	285
25	d4	h3	e5	b3	h4	859	28	b3	a3	a6	b1	h1	304
26	a3	f4	f8	a1	e7	036	28	b3	a3	a6	b1	h3	314
26	b3	a3	a6	b1	d1	174	28	b3	a3	a6	b1	h5	321
26	b3	a3	a6	b1	d5	178	28	b3	a3	a8	b1	d7	189
26	b3	a3	a8	b1	d1	175	28	b3	a3	a8	b1	g4	286
26	b3	a3	a8	b1	d5	179	28	b3	a3	a8	b1	h1	305
26	b3	a3	b5	b1	e4	201	28	b3	a3	a8	b1	h3	315
26	b3	a3	b7	b1	d7	190	28	b3	a3	a8	b1	h5	322

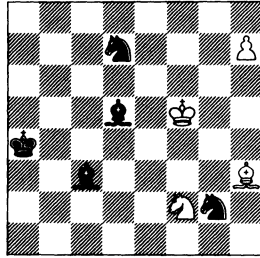
28	b3	a3	c6	b1	f5	254	30	c3	d4	g5	a2	f8	499
28	b3	a3	d3	b1	h5	326	30	c4	b4	f5	c1	b8	771
28	b3	a3	d7	b1	d5	182	30	c4	b8	d6	a4	g7	725
28	b3	a3	d7	b1	g4	289	30	c4	c3	a6	a3	c6	606
28	b3	a3	d7	b1	h1	309	30	c4	c3	b3	a3	c6	607
28	b3	a3	d7	b1	h5	327	30	c4	c3	d7	a3	c6	608
28	b3	a3	g6	b1	d3	177	30	c4	c7	d1	a3	d7	615
28	b3	a3	g6	b1	d5	186	30	c4	e5	f3	a4	e2	667
28	b3	c5	f2	b1	c6	166	30	d4	e4	f7	b3	e7	857
28	b3	e3	h1	b1	e4	210	31	b3	a3	d1	b1	e4	203
28	b4	d4	b5	a2	b1	373	31	b3	a3	f8	b1	f4	248
28	b4	e1	d1	a2	b1	374	31	b3	a4	f4	b1	a2	147
28	b4	e6	d8	a6	b6	399	31	b4	e4	d5	b2	d7	407
28	c4	c5	b3	a4	g2	705	31	c3	b8	d6	a3	g7	561
28	c4	c5	c6	a4	g2	707	31	c3	c2	c7	a2	f6	498
28	c4	c5	f3	a4	g2	708	31	c3	f4	a6	a2	a7	463
28	c4	c7	g7	a4	f8	699	31	c4	c3	d1	a4	f3	683
28	c4	f2	d5	a4	e2	668	31	c4	d2	e4	a2	c6	591
29	a3	c5	f2	a1	c6	019	31	c4	e4	f6	a4	e7	677
29	a4	g6	d2	a2	d6	093	32	b4	e4	c7	b2	b8	405
29	b3	a3	b8	b1	g7	298	32	c3	b6	c5	a2	e5	479
29	b3	a3	b8	b1	h6	334	32	c3	c1	h5	a2	f5	494
29	b3	a3	d8	b1	f4	247	32	c3	c2	a8	a2	d7	478
29	b3	a3	e3	b1	g5	293	32	c3	d1	g7	a3	h6	569
29	b3	a3	g5	b1	f2	242	32	c4	a1	d4	a4	b4	638
29	b3	a3	g7	b1	f4	249	32	c4	c3	e3	a4	g1	704
29	b3	a3	h8	b1	b2	149	32	c4	c3	e3	a4	h2	729
29	b3	b2	a8	b1	b8	159	32	c4	c3	e3	a4	h4	732
29	b3	b2	e6	b1	b4	153	32	c4	f5	d6	a3	g5	625
29	b3	b2	g6	b1	b4	154	33	b3	e2	e4	b1	b2	152
29	b3	c5	e3	b1	c6	165	33	c3	c1	f6	a2	e7	483
29	b3	e3	h6	b1	d6	187	33	c3	d4	c2	a2	g4	502
29	b3	f4	b8	b1	e7	222	33	c3	e5	c4	a2	f5	496
29	b3	f4	d8	b1	e7	223	33	c3	f8	c5	a3	c8	530
29	b3	h2	b2	b1	h3	318	33	c4	b6	e5	a3	b4	602
29	b4	e4	e3	b2	e5	413	33	c4	b6	f4	a3	b4	603
29	b4	e6	a5	a6	b6	397	33	c4	c3	d1	a4	g4	709
29	b4	h6	e1	b2	d7	408	33	c4	c3	f2	a4	g5	714
29	c3	c2	c8	a3	b7	521	33	c4	c7	d1	a3	g6	626
29	c4	c5	d2	a4	e1	661	34	b3	d1	e2	b1	b5	155
29	c4	c7	e8	a4	d7	651	34	b3	e2	f2	a1	b2	135
29	d4	e4	d6	b4	e7	873	34	b3	e3	g1	b1	g3	280
30	a3	b4	e3	b1	b6	063	34	b4	g6	f2	b2	g7	421
30	a3	c5	e3	a1	c6	018	34	c3	c1	h7	a2	g6	508
30	a3	f4	b8	a1	e7	034	34	c3	e5	b2	a2	h4	512
30	a3	f4	d8	a1	e7	035	34	c3	e5	f2	a2	e6	480
30	b3	a3	h7	b1	h3	316	34	c3	e7	c5	a3	a7	519
30	b3	a3	h7	b1	h5	332	34	c4	b2	d4	d2	b1	808
30	b3	b2	d8	b1	g6	296	34	c4	g7	d1	a5	g4	752
30	b3	b2	g7	b1	g6	297	34	d4	e4	c7	f6	b4	922
30	c3	c7	e8	a3	d7	541	35	a3	e3	g1	a1	g3	042

35	a3	f4	d3	a1	e4	031	39	c4	c3	c2	a4	g8	728
35	b3	e3	h3	b1	e4	211	39	c4	c3	c7	a3	f3	621
35	b3	e3	h3	b1	h5	333	39	c4	c3	c7	a4	g1	703
35	c3	c2	h5	a3	h3	566	39	c4	c3	c7	a4	g5	712
35	c3	e3	a8	a2	f3	486	39	c4	c3	h6	a4	h4	733
35	c3	e5	e6	a2	c8	475	39	c4	d1	e5	a3	b4	604
35	c3	e7	f7	a2	g4	504	39	d4	d7	a5	b2	d8	845
35	c4	c3	d3	a3	e6	617	40	a3	b3	a2	b1	f8	071
35	c4	d4	g6	e2	d7	819	40	b3	g4	a2	b1	g3	283
35	c4	e5	b2	a3	e6	618	40	b4	e5	c4	a2	h6	396
35	c4	f4	e3	b2	f3	765	40	c4	c3	a6	a4	f3	678
35	c4	f6	d1	a3	g6	627	40	c4	c3	a8	a4	f3	679
35	c4	h2	a8	a5	c1	748	40	c4	c3	b7	a3	h2	630
36	a3	e3	h3	a1	h5	045	40	c4	c3	c8	a3	h2	631
36	b3	a3	h3	b1	e1	197	40	c4	c3	d5	a4	f3	685
36	b4	a3	d6	a2	d2	385	40	c4	c3	e6	a4	f3	686
36	c3	e5	b6	a2	e7	485	40	c4	c3	e8	a3	h2	632
36	c3	e5	b6	a2	h4	513	40	c4	d1	a4	a3	a8	599
36	c4	c3	b4	a3	c7	610	40	c4	d1	d7	a3	a6	598
36	c4	c3	b5	a2	f3	593	40	c4	d1	d7	a3	a8	600
36	c4	c3	b5	a4	f7	694	40	c4	d4	b7	a4	h4	734
36	c4	c3	d6	a4	g5	713	41	a3	d1	a2	b1	h2	074
36	c4	e4	c1	a4	e7	676	41	b4	e5	b6	a2	g8	394
36	c4	f4	d5	a3	f3	623	41	c3	c2	b4	a3	g5	559
37	b3	b7	b2	c1	b4	346	41	c3	c2	e7	a3	d8	546
37	b4	a3	f5	a2	f1	387	41	c3	c2	f6	a3	g7	562
37	c4	c1	b7	a4	e6	671	41	c3	f8	d1	a2	f5	497
37	c4	c3	d6	a3	f3	622	41	c4	c3	e7	a4	f8	697
37	c4	c3	e8	a4	e6	672	41	d4	d7	e1	b4	e7	866
37	c4	c3	f5	a4	h7	737	41	d4	e8	e3	b3	e7	858
37	c4	c3	f7	a4	g6	724	42	c3	c2	d3	a3	h5	568
37	c4	c7	a5	a6	c1	754	42	c4	d1	g5	a3	c7	611
38	a3	d1	c5	b1	c1	065	42	d4	e8	c4	b3	c8	853
38	a3	d1	f2	b1	c1	066	43	b4	b3	h1	b1	h2	401
38	a3	e3	h3	a1	e4	028	43	c3	b3	c5	a3	f1	553
38	a4	g7	d4	a2	c7	090	43	c4	c7	d1	a4	g4	710
38	c3	e5	b2	a2	h6	516	44	c3	e8	d1	a2	a3	458
38	c4	a1	c3	a3	f8	624	44	c4	e8	d6	a3	e7	619
38	c4	c3	b7	a4	f3	681	44	c4	h5	c5	b2	g5	766
38	c4	c3	c8	a4	f3	682	44	d4	a4	g4	b2	g8	849
38	c4	c3	e8	a4	f3	687	45	a3	b3	b4	b1	b2	062
38	c4	c3	f5	a4	f3	688	45	c4	e8	e4	a3	g8	629
38	c4	c3	f7	a4	f3	689	45	c4	f8	a4	a2	d8	592
38	c4	c3	g3	a4	g5	715	46	c3	b5	f1	a2	b3	467
39	a3	d1	b2	b1	c1	064	46	c3	d7	f6	a3	d6	538
39	b3	d1	f2	b1	a2	148	46	c3	d7	g3	a3	d6	539
39	b3	e2	g5	a1	b2	137	47	b3	e2	b6	a1	b2	133
39	c4	b4	e8	a4	g1	701	47	b3	g4	c7	b1	f4	252
39	c4	b4	f5	a4	g5	711	47	b3	h7	d3	b1	g3	284
39	c4	c3	a7	a3	f3	620	47	b4	c6	a3	b2	b6	402
39	c4	c3	a7	a4	g1	702	48	a3	g4	c7	a1	f4	039

48	a4	f5	d1	a1	d5	078	59	a3	f1	b2	a1	c6	020
49	a3	a4	a2	b1	e7	069	59	a3	h5	f8	a1	e5	033
49	a3	d1	a2	b1	h4	077	59	b3	d5	h2	a1	g3	143
49	a3	h5	g2	a1	d3	022	59	b4	a4	e4	b2	f7	418
49	b3	g4	f6	b1	f4	253	59	b4	a4	g2	b2	g6	420
49	b4	e4	c5	b2	e5	412	59	c3	a4	e3	a2	d6	476
50	a3	d5	c3	a1	d4	023	59	c4	c3	a1	a4	f4	690
50	b3	e2	f6	a1	b2	136	59	c4	g5	g4	c2	h5	787
50	b4	e4	b3	a2	e5	386	60	a4	c2	d3	a2	f6	100
51	a3	b3	a2	b1	g7	073	60	a4	e2	f2	a2	a3	080
51	c4	f6	e8	a3	h3	633	60	a4	e7	d5	a6	b7	103
52	a3	a2	a7	a1	a6	015	60	b3	g2	a2	b1	g3	282
52	a3	a2	h3	a1	g3	041	60	b4	a4	b3	b2	b7	404
52	b4	a4	f2	b2	e5	411	60	b4	a4	d7	b2	f7	417
52	c3	c6	c2	a2	d6	477	60	b4	a4	e3	b2	e7	415
53	b4	f3	a4	a2	g3	392	61	a3	a4	d1	b1	a2	059
53	c3	c6	a1	a3	d6	531	61	b4	f5	a4	a2	f2	389
53	c3	c6	d4	a3	d6	533	61	c3	c2	f4	a2	c7	474
53	c3	c6	e1	a3	d6	534	61	c3	d7	c5	a3	d6	537
53	c4	c3	g3	a4	h6	735	61	d4	d1	d7	a2	g6	837
54	b3	f3	d4	b1	f4	251	62	a3	a2	h1	a1	c5	016
54	c4	c3	f3	a4	h3	731	62	a3	c2	b2	a1	e4	025
54	d4	c6	g4	b2	f7	848	62	b4	a4	a6	b2	b7	403
55	c3	c6	b2	a3	d6	532	62	b4	e4	f2	b2	e5	414
55	c3	c6	d4	a2	f4	491	62	b4	h7	d3	a2	g3	393
55	c3	c6	e5	a3	d6	536	62	c3	d1	h6	a3	h4	567
55	c3	d1	b4	a3	f4	556	62	c3	d7	a4	a3	c8	528
55	c3	f3	c5	a2	f4	493	62	c4	g6	d3	a3	b1	601
55	c4	f3	d4	a3	g7	628	62	d4	a4	c4	a2	c7	836
56	a3	c2	a7	a1	d3	021	63	b3	c2	b8	a1	d3	138
56	c3	c6	d7	a3	a8	552	63	b4	f5	e3	a2	c1	378
56	c3	d1	a6	a3	e6	551	64	a3	f3	h2	a1	g3	043
56	c3	d7	g3	a3	g5	560	64	b4	g6	c5	a2	c1	379
57	b3	f3	c5	b1	f4	250	64	c3	b5	e3	a2	f4	487
57	b3	g4	c7	b1	e7	225	64	c4	f4	d5	b7	d1	770
57	b4	a4	e1	b2	e5	410	64	d4	d7	a4	b3	a7	852
57	c3	c6	b8	a3	c7	525	65	b3	a4	f8	b1	d8	195
57	c3	e8	h6	a3	e5	549	65	c3	b5	d1	a2	g6	505
57	c3	f3	b8	a2	f4	492	65	c3	b5	d1	a2	h3	511
57	c4	d7	e5	b2	b7	760	65	c3	b5	f1	a2	g6	506
57	c4	g7	b3	a3	h3	634	65	c3	b5	f1	a2	h5	514
58	a3	g4	c7	a1	e7	037	65	c3	b5	g4	a2	g6	507
58	a4	b3	d3	b1	c2	108	65	c3	b5	g4	a2	h5	515
58	b3	f1	b2	b1	c6	167	65	c3	c6	d1	a2	c5	470
58	b3	f3	h2	b1	g3	281	65	c4	f4	e7	a8	d1	757
58	b3	h5	f8	b1	e5	218	66	b4	a4	f8	b2	d8	409
58	c3	c6	g6	a3	f7	558	66	c3	b5	a6	a3	e6	550
58	c3	f3	d1	a3	f1	554	67	b4	f3	d1	a2	f6	390
58	c4	d7	f3	b2	d8	764							
58	c4	f4	d7	a6	g4	756							
58	c4	g6	d4	d2	d8	811							

DIAGRAMS AND SOLUTIONS

**No. 8179** Gerchen-Gubanov (iv-vi.79)  
1st Prize, Thèmes-64, 1978-179  
award: x-xii.80

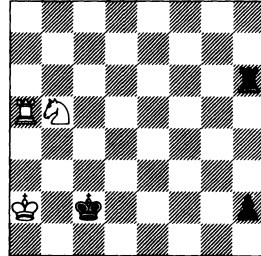


Draw 4 + 5

**No.8179:** Gerchen-Gubanov (USSR). Judge: Yohanan Afek (Israel). The composer is otherwise unknown. We have been unable to trace a final award. 1.Se4 Bxe4 + 2.Kxe4 Sc5 + 3.Kd5 Sf4 + 4.Kc4 Bal 5.h8Q/i Bxh8 6.Bd7 + Sxd7 stalemate.  
i) 5.Bd7 + ? Sxd7 6.h8Q Sb6 + wins. 'A typical passage of arms with minor pieces leads to a charming model stalemate. Charming.'

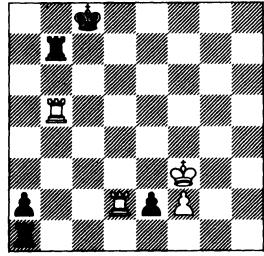
Rxf2 4.Rxf2 Rel + 5.Kd5 Rd1 + /i 6.Kc6 a1Q 7.Rf8 + Ka7 8.Ra5 + Qxa5 9.Ra8 + Kxa8 stalemate.  
i) a1Q 6.Rf8 + Kb7 7.Rf7 + Kb6 8.Rc6 + Kb5 9.Rb7 + draw.  
'In his endeavours to escape a net of perpetual checks Bl delays promoting with the aim of making an intermediate check - and having done so finds that he has constructed a surprising stalemate net for his opponent.'

**No. 8181** G. Zakhodyakin (i-iii.79)  
3rd Prize, Thèmes-64, 1978-79



Draw 3 + 3

**No. 8180** D. Gurgenzidze and G.A. Nadareishvili (x-xii.79)  
2nd Prize, Thèmes-64, 1978-79



Draw 4 + 5

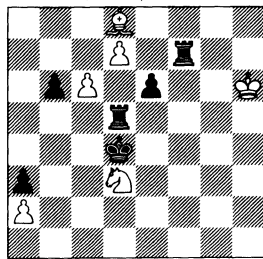
**No.8180:** D.Gurgenzidze and G.A.Nadareishvili (Georgian SSR). 1.Rc5 + Kb8 2.Rxe2 Rf7 + 3.Ke4

**No.8181:** G.Zakhodyakin (USSR). 1.Sa3 + Kd2 2.Rd5 + Ke2 3.Re5 + Kf2 4.Rf5 + Kg2 5.Rb5 h1Q 6.Rb1 Qh5 7.Rb2 + Kf3 8.Rb3 + Ke4 9.Rb4 + drawn.  
'This version of an idea of Kozlowski's (Swiat Szachowy, 1932) has a superior introduction and astonishing economy. It leads in the most natural way to the central idea.' There is a Zakhodyakin version dated 1947, but the present miniature is perfect. See EG18 p45, K12.

**No.8182:** Eduard Asaba (Moscow). 1.c7/i Rh7 + 2.Kg6 (Kxh7? Rxd7 + ; ) Rg7 + 3.Kf6 Rf7 + 4.Kxe6

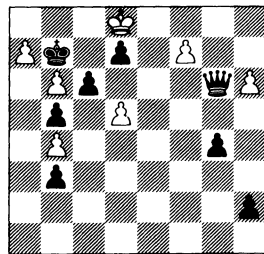
fRxd7 5.Bf6+/ii Ke4 6.Sf2+ Kf4 7.Sh3+/iii Ke4 8.Sg5+ Kf4 9.Be5+ Rxe5+ 10.Kxd7 Rd5+ 11.Ke7 wins.  
 i) 1.Bxb6+? Kxd3 2.c7 Rf6+ 3.Kg7 Rxd7+ 4.Kxf6 Rxd7 5.Bxd7 Kc2 draw. 1.Sb4? R5xd7 2.cd Rxd7 3.Bxb6+ Kc4 4.Sc2 Kc3 draw.  
 ii) 5.c8Q? Rxd8 6.Qc2 R8d6+, with perpetual check.  
 iii) 7.Be5+? Rxe5+ 8.Kxd7 Rd5+ 9.Ke6 Re5+ 10.Kd6 Re8. 7.Bg5+? Kxg5 8.c8Q R7d6+ 9.Ke7 Rd7+ 10.Qxd7 Rxd7+ 11.Kxd7 Kf4 12.Kc6 Ke3.  
 'Bl's heroic fight to stop promotion comes up against a clever manoeuvre by the pair of W pieces having the task of stopping the perpetual check? Or mate!

No. 8182 E. Asaba (x-xii.79)  
 1. Hon. Mention,  
 Thèmes-64, 1978-79



Win 6 + 6

No. 8183 A. Maksimovskikh and  
 Yu. Makletsov (iv-vi.79)  
 2 Hon. Mention, Thèmes-64,  
 1978-79

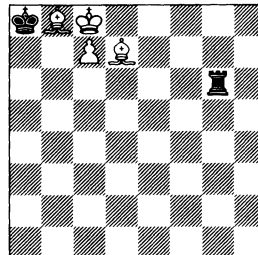


Win 7 + 8

**No.8183:** A.Maksimovskikh and Yu.Shupletsov (USSR). 1.a8Q+/i Kxa8 2.Kc7 Qd6+ 3.Kxd6 Kb7 4.f8Q h1Q 5.Qa8+ Kxa8 6.Kc7 Qh2+ 7.d6 Qxd6+ 8.Kxd6 Kb7 9.h7 b2 10.h8Q b1Q 11.Qa8+ Kxa8 12.Kc7 wins.  
 i) 1.f8Q? Qg5+ draws. 1.dc+? Qxc6 draws.

'I have always liked it when both sides sacrifice the same piece type - the effect of this splendid idea is enhanced when the piece is the Q. But there petition of the same critical squares is a little mechanical! Cf. Korolkov and Mitrofanov (1957), No.12 82 in '1357'.

No. 8184 E. Pogoyants (i-iii.79)  
 1 Comm., Thèmes-64,  
 1978-79



Win 4 + 2

**No.8184:** Ernest Pogoyants. 1.Kd8/i, with: Rb6 2.c8S/ii Rxb8 (Rb7; Bd6) 3.Bc6+ Rb7 4.Sd6 wins, or Rg8+ 2.Be8 Rh8 3.Ba7/iii (c8Q? Rxe8+;) Kxa7 4.c8Q wins.

i) 1.Be6? Rxe6/iv 2.Kd7 Rc6 3.Kxc6 stalemate.

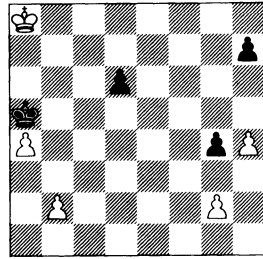
ii) 2.Ba7+? Kxa7 3.c8Q Rb8 draw.

iii) 3.c8Q? Rxe8+. 3.c8R? Kb6 4.Kd7 Rh7+ 5.Kd8 Rh8 6.Kd7 Rh7+ draw.

iv) Rg8+; is given a '?' because of 3.Kd7, but it draws too: Rxb8 4.Bd5+ Ka7.

'Efficacious promotion in a miniature, whose main merit lies in the positional draw after 3.c8R? Kb7! The 0410 data base (which the composer never experienced) confirms the draw after 4.R- Kxb8.

No. 8185 M. Zinar(iv-vi.79)  
2 Comm...  
Thèmes-64, 1978-79



Draw 5 + 4

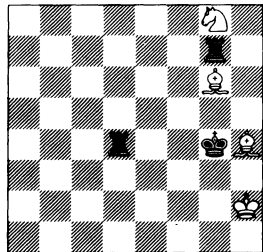
**No. 8185:** M. Zinar (USSR). 1.Kb7 d5 2.b4 + Kxb4 (Kxa4; Kc6) 3.Kb6 d4 4.a5 d3 5.a6 d2 6.a7 d1Q 7.a8Q Qd6 + /i 8.Qc6/ii Qxc6 + 9.Kxc6 Kc4 10.Kd6(d7) Kd4, and the second phase starts, 11.Ke6 Ke3 12.Kf5 g3 13.Kg4 Kf2 14.Kh3 h5 stalemate.

i) Otherwise there is no forced Q-exchange.

ii) On other moves the subsequent Q-swap wins for Bl, for example: 8.Ka7? Qc5 +, and a8 becomes the exchanging-off square.

'This is the best of the article's (in Thèmes-64 in 1979) interesting endeavours to synthesise classic themes into P-studies.'

No. 8186 P. Joitsa  
1st Prize, Schweizerische  
Schachzeitung 1981-1982  
award: vi.83



Draw 4 + 3

**No. 8186:** P. Joitsa (Romania).  
Judge: A.J. Roycroft. 1.Sh6 + /i

Kf4/ii 2.Bg3 + Kg5/iii 3.Sf5 Rd2 + 4.Kh3 Rxc6 5.Sh4, with:

Rf6 6.Sf3 + Rxf3 pin stalemate, or Rh6 6.Bf4 + Kxf4 pin stalemate.

i) 1.Se7? Rd2 + 2.Kg1 Kxh4 3.Sf5 + Kg5 4.Sxg7 Kxg6 5.Se6 Kf5 6.Sc5 Rd5 7.Sb3 Rd3 8.Sc5 Rc3 9.Sa4 Rc2 wins.

ii) Kf3 2.Bh5 + Ke4 3.Sg4 draw.

iii) Kf3 3.Sf5 Rd2 + 4.Kh3 Rxc6 5.Sh4 + draw.

'The whole impact is in the final echo, which happens so quickly that it might even be overlooked: wB sacrifices for a stalemate where bS is pinned, and wS sacrifices for a stalemate where wB is pinned. This logical symmetry occurs in pure, pawnless form, and all pieces move. True, to be a top class study something additional is desirable, but there should be no complaints about this placing? An earlier version (with wKg2) provisionally took 1st Prize in the Mandil MT (1979-80) award (see EG71 for the final), but this allowed the fatal dual draw 4.Kf3 in the mainline.

'In making his award the judge has restricted his activities to the twin-functions of (a) identifying anticipations, and (b) ranking. He has not tested the studies for soundness, believing that this is not the prime responsibility of a judge -- although some talented judges nobly accept this burdensome additional chore. He acknowledges his debt to SSZ solvers.

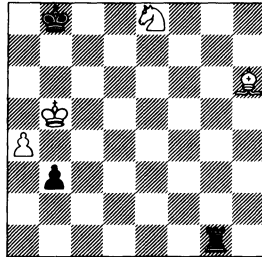
'Just 17 studies remained after the efforts of SSZ solvers had revealed a number of unsoundnesses, and after a few others had also been eliminated for reasons of duals or relatively low interest value, this latter criterion meaning clearly anticipated or of trivial content in the context of an international tourney.

Using scissors and paste, the judge concocted a 'scroll' of all 17 diagrams and solutions and comments

published in the column, and carried it about with him for a fortnight. The result of this familiarisation exercise follows. There is much to enjoy in the studies honoured!

**No. 8188:** C.M. Bent (Newbury).  
 1.Sd3 (Kxc2? Sf4;) c1Q + 2.Sxc1 Sf4  
 3.Se2 Sxg2 4.Bd5 Kh3 5.Sg1 + Kh2  
 6.Sf3 + Kh3 (Kh1; Sh4) 7.Be6 mate.  
 'Economy, surprise, neatness, and a checkmate.'

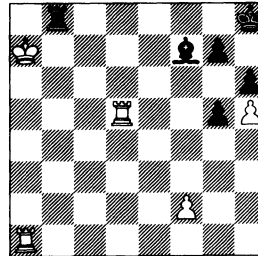
**No. 8187** S. Tkachenko (x.81)  
 = 2/3 Prizes,  
 SSZ 1981-82



Draw 4 + 3

**No. 8187:** S. Tkachenko (USSR).  
 1.Bf4 + Ka8/i 2.Sc7 + (Kc6? Rg6 +)  
 Kb7 3.Sd5/ii b24.Sc3 Rc1 5.Sb1  
 Rxb1 6.Be5 Re1 7.Bxb2 Rb1 8.Ka5  
 Rxb2 stalemate.  
 i) Kc8 2.Sd6 and 3.Sc4. Ka7 2.Be3 +  
 and 3.Bd4.  
 ii) 3.Be5? Rg5 4.Kc4 Rxe5 5.Sb5  
 Rxb5 wins.  
 'A single-line miniature of deceptively simple construction and Platov-like conclusion!'

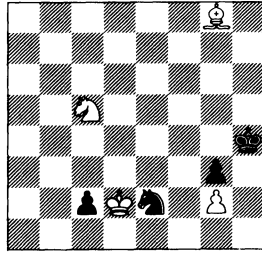
**No. 8189** Em. Dobrescu  
 1 Hon. Mention,  
 SSZ 1981-82



Win 5 + 6

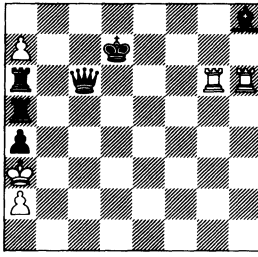
**No. 8189:** Em. Dobrescu (Bucharest).  
 1.Rf5/i Rf8/ii 2.Ra3 g4 3.Ra4 Kh7  
 (Kg8; or f4) 4.aRf4/iii Kg8 5.Kb6/iv  
 Rb8 + 6.Kc7 Rf8 7.Kd6 Rd8 +  
 8.Ke7 Re8 + 9.Kd7 Rf8 10.Kc7 Ra8  
 11.Kb7 Rf8 12.Ka7 wins.  
 i) 1.Rd7? Rf8 2.Ra5 Bxh5.  
 ii) Be6 2.Re5 Re8 3.aRe1.  
 iii) 4.Rd4? g6 5.hg Kxg6 6.fRf4 h5.  
 4.Rxg4? Be6 5.Rxf8 Bxg4.  
 iv) 5.Ka6? Bc4 + . 5.Kb7? Bd5 + .  
 'Probably the most original entry, but the pin on the f-file is somewhat heavy, taking away from the undoubted wit of wK's zugzwang-created duel with bR.'

**No. 8188** C.M. Bent  
 = 2/3 Prizes,  
 SSZ, 1981-82



Win 4 + 4

**No. 8190** Gh.A. Umnov  
 2 Hon. Mention,  
 SSZ 1981-82



Draw 5 + 6

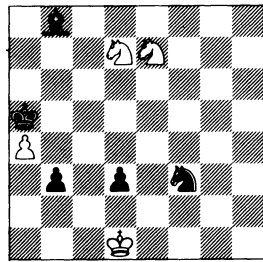


**No.8190:** Gh.A.Umnov (USSR).  
 1.Rh7+ Bg7 (Kd8; Rxc6) 2.hRxcg7+  
 Kc8/i 3.a8Q+ Qxa8 4.Rg8+ Kb7  
 5.R8g7+ Kb8 6.Rg8+ Ka7  
 7.Rxa8+ Kxa8 8.Rb6 Ka7 9.Rb5  
 Ka8 10.Rb6 Ra7 11.Rb5 R5a6  
 12.Rb6, positional draw.  
 i) Kd8 3.Rxc6 Rxc6 4.a8Q+ Rxa8  
 5.Rg8+.

'An unsatisfactory introduction, but the infinite wR offers in the finale cannot be denied their humour and charm'

**No.8192:** Gh.A.Umnov. 1.b7 Sa6/i  
 2.Rc6+/ii Kg5 3.Rxa6 Rb1 4.Ra7  
 Kf5 5.Kc2 Rb6 6.Kc3 Ke5 7.Kc4 Kd6  
 8.Ra6 wins.  
 i) Rh2+ 2.Kc3 Rc2+ 3.Kb3 Rxc5  
 4.b8Q, with material loss for Bl.  
 ii) 'Solvers found an alternative:  
 2.Ra5 Sb8 (Rb1; Rxa6+) 3.Ra8?  
 Was this eliminated?'

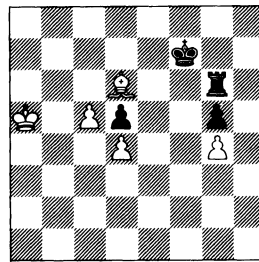
No. 8191 3 Hon. Mention, SSZ 1981-82 W. Naef



Draw 4 + 5

**No.8191:** W.Naef (Switzerland).  
 1.Sc6+ Kxa4 2.Sc5+ (Sb6+? Kb5;) Kb5 (Ka3; Sxb3) 3.Sxb3 Kxc6 4.Scl d2 (Se5; Kd2) 5.Sb3 Bf4 6.Sd4+ (Ke2? Kd5;) Sxd4 stalemate.  
 'Well constructed stalemate, if somewhat familiar.' Each of the next 3 studies adds something to an already known field'

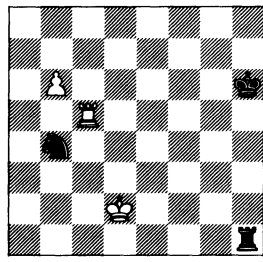
No. 8193 Cor van Wijgerden (ix.81) Commended, SSZ 1981-82



Win 5 + 4

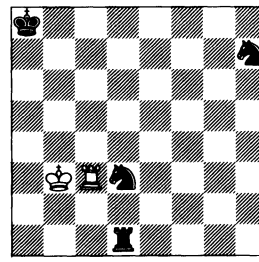
**No.8193:** Cor van Wijgerden (Netherlands). 1.c6/i Rxd6/ii 2.Kb6 Re6 3.Kb7 Re7+ 4.c7 Ke6 5.Kb8 Re8+ (Kd6; Sc8+) 6.c8R Re7 7.Rc6+ Kf7 8.Rf7 wins.  
 i) 1.Kb6? Ke6 2.Kc6 Rh6 3.Kb7 Rh4, and if 4.Be5 Rxc4 5.c6 Rg1 6.c7 Rb1+, or if 4.Bf8 Rxc4 5.c6 Rxd4. Anticipation: Kamensky, IHM Chervony Girnuk, 1967. EG19.1020 (with wPd3, not bPd3).

No. 8192 Gh. Umnov Commended, SSZ 1981-82



Win 3 + 3

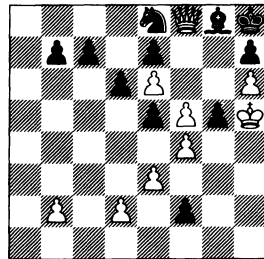
No. 8194 Gh. A. Umnov (x.81) Commended, Schweizerische Schachzeitung, 1981-82



Draw 2 + 4

**No.8194:** Gh.A.Umnov. 1.Kc2 Sf2  
 2.Rf3 Ra1 3.Kb2 Rf1 4.Kc2/i Sg5  
 5.Ra3+ Kb7 6.Rb3+ Kc6 7.Rb1  
 draw.  
 i) 4.Ra3+ ? Kb7 5.Ra1 Sd3+ .

**No. 8195 B. Neuenschwander (xii.81)**  
 Special Prize,  
 Schweizerische Schachzeitung,  
 1981-82



Win 9 + 11

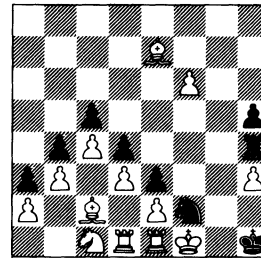
**No.8195:** Beat Neuenschwander (Switzerland). 1.fg hg+ 2.Kxg6 f1Q  
 3.Qg7+ Sxg7 4.hg mate. The en passant capture can be demonstrated to be legal by considering all of Bl's possible alternatives to g7-g5; on his move to create the diagram. d7-d6; is ruled out by bSg8, which cannot be the result of a promotion, and f6xe5; implies that Bl has made 6 captures, which is ruled out because wBB, since they move on light and dark squares, cannot both have been captured by bPP.

'The wealth of possibilities offered by the studies genre can make a mockery of a straightforward tourney award. Judges have long recognised this fact, and have developed the custom of awarding 'Special' prizes, 'Special' honourable mentions, and 'Special' commendations - and even placing together special sections altogether, for instance of 'miniatures' (maximum of 7 men on the board), although the tourney announcement may have made no mention of such separation. In the present tourney two studies stand out as candidates for special treat-

ment, both as it happens by Beat Neuenschwander. My personal opinion is that composition prizes should not be awarded for difficulty of solution, but there is no doubt that if such a prize were to be awarded it would go to No.8196. ... The ingenious introduction is a solution on its own, but artistically it is not related to the quite incredible main line contortions.

**No.8195:** seems to be different: It is a splendid introduction to the field of retroanalysis in the study, for it has many of the latter's standard components without the drawbacks of lengthy justifying variations'

**No. 8196 B. Neuenschwander (iii.81)**  
 Schweizerische Schachzeitung  
 1981



Win 13 + 9

**No.8196:** Beat Neuenschwander. 1.f7 (Bd6? Sxh3;) Rf4 (Sg4; Bd6) 2.f8Q Rxf8 3.Bxf8 Sg4 (else wBxc5) 4.Bd6 (hg? hg;) Sh2+ /i 5.Bxh2 h4 6.Bb1/ii Kxh2 7.Rd2 Kh1 8.Rc2/iii Kh2 9.Rb2 Kh1 10.Bc2/iv Kh2 11.Rb1 Kh1 12.Ra1 Kh2 13.Bb1 Kh1 14.Rd1 Kh2 15.Rd2 Kh1 (Kxh3;K g1) 16.Ke1 Kg2/v 17.Kd1 Kf2/vi 18.Kc2 Ke1 19.Rd1+ Kf2 20.Rh1 Kg2 21.Re1 Kf2 22.Kd1 Kg2 23.Bc2/vii Kf2 24.Rb1 Kg2 25.Rb2 Kf2 26.Bb1 Kg2/viii 27.Rc2/ix Kf2 28.Rd2 Kg2 29.Kc2 Kf2 30.dRd1 and W wins.  
 i) Sh6 5.Rd2 Sf5 6.Bf4 h4 7.eRd1 wins.

ii) Here and elsewhere some move inversion is possible: 6.Rd2.

iii) See (v) for 8.Rb2? iv) wR must play to a1. Not so doing might lead to: 10.Rd1 Kh2 11.R1d2 Kh1 12.Ke1 Kg2 13.Kd1 Kxh3 14.Kc2 ed 15.e4 (Kxd2,ab;) de 16.Se2 Kg2 17.Kd1 ab 18.d4 h3 19.Sf4 + Kf1 20.Rd3 + e2 + 21.Bxe2 + (Sxe2, h2;) Kf2 22.Sxh3 + Ke3 and it is Bl who wins.

v) Had W played 8.Rb2? then bK would now stand on h2 and there would follow Kxh3 17.Kd1 Kg2 18.Kc2 ed 19.Kxd2 h3 20.e4 h2 and W is one tempo too late.

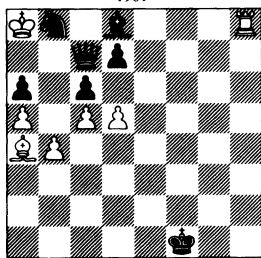
vi) But now W is in time: Kxh3 18.Kc2 ed 19.Kxd2 Kg2 20.e4 h3 21.Se2 h2 22.Bc2 wins.

vii) And now wRa1 can be reawoken. viii) ab 27.a4 bcQ + 28.Kxc1 Kx1 29.Bc2 Kxe2 30.a5 Kf1 31.Bd1 wins.

ix) 27. Rd2 Kf2 28. Kc2? Kx1 since W has not enough to win with.

Among the last to be reluctantly discarded from the honours list were the next three.

No. 8197 E. Melnichenko  
Schweizerische Schachzeitung  
1981

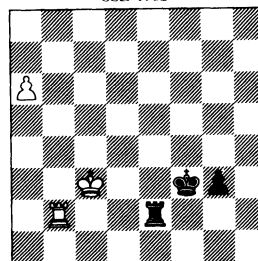


Win 7 + 7

**No.8197:** Emil Melnichenko (New Zealand). 1.d6 Qc8 2.Re8 Kf2 3.Bd1 Kf1 4.Bf3 Kf2 5.Be2 Kg3 6.Rf8 Kg2 7.Bg4 Kg3 8.Bf3 Kh4 9.Rg8 Kh3 10.Bh5 Kh2 (Kh4; Bg4) 11.Bg4 Kh1 12.Bf3 + Kh2 13.Bg2 wins.

This was an improvement on an earlier effort in SSZ.

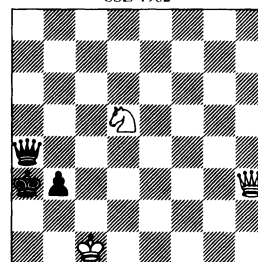
No. 8198 T. Amirov  
SSZ 1982



Win 3 + 3

**No.8198:** T.Amirov (USSR). 1.a7 Re3 + (Re8; Rb8) 2.Kc2 (Kd2? Ra3;) Re2 + (Ra3; Rb3 +) 3.Kb1 Re1 + 4.Ka2 Re8 5.Rb8 Re2 + 6.Ka3 Re3 + 7.Rb3 wins.

No. 8199 R. Knobel  
SSZ 1982



Win 3 + 3

**No.8199:** R.Knobel (Switzerland). 1.Qc3 Qc4 for stalemate) 2.Qxc4 b2 + 3.Kd2 b1Q 4.Qc5 + Kb3 5.Qb + Ka2 6.Sc3 + wins.

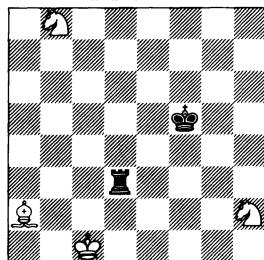
**No.8200:** M.Gromov (Vladimir). Judge: Anatoly G.Kuznetsov. 1.Bb1 Ke4 2.Sg4/i Kd4 3.Sc6 + Kc3/ii 4.Sf2 Rd5/iii 5.Bg6/iv Kc4 6.Se4/v Kb5 7.Sc3 + Kxc6 8.Be4 wins.

i) 2.Sf1? Kd4 3.Sc6 + Kc3 and it's a draw.

ii) Kc4 4.()Se5 +, or Ke4 4.Sf2 +. We leave the reader to count the forks in the variations of this fine study.

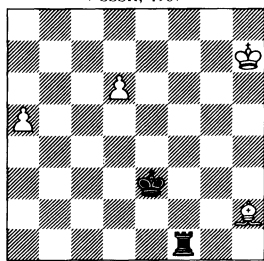
- iii) Alternatives lead to S-forks either at once or after an intervening move.
- iv) This very quiet move completely tames bR.
- v) The third domination, the first being after 4.Sf2.

**No. 8200** M. Gromov (iii.87)  
1st Prize, Shakhmaty  
v SSSR, 1987  
award: iv.90



Win 4 + 2

**No. 8201** D. Gurgenzidze and  
I. Mitrofanov (viii.87)  
2nd Prize, Shakhmaty  
v SSSR, 1987



Win 4 + 2

**No.8201:** David Gurgenzidze (Georgian SSR) and Leopold Mitrofanov (Leningrad).

1.a6 Ra1/i 2.Bg1+/ii Rxc1/iii  
3.Kh6/iv Rh1+ (Rf1; Kg8) 4.Kg8/v  
Rd1 5.a7 Rg1+6.Kf8 Rf1+ 7.Ke8  
winning.

i) Rf8 2.a7 Ke4 3.d7 Rd8 4.Bc7  
Rxd7+ 5.Kg6.

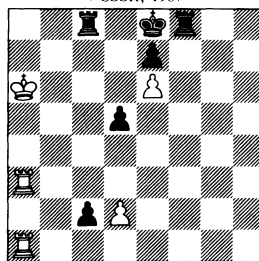
ii) 2.a7? Rxa7+. 2.d7? Rd1 3.a7  
Rxd7+ and Rxa7.

iii) Ke4 3.a7 and 4.d7.

iv) Now there is no way bR can reach  
his home rank.

iv) 4.Kg7? Rd1 5.a7 Ra1.

**No. 8202** V. Anufriev (iii.87)  
3rd Prize, Shakhmaty  
v SSSR, 1987



Win 5 + 6

**No.8202:** V.Anufriev (Tula). 1.Kb7  
Rf3/i 2.d3/ii Rxd3 3.Rg1 (Rh1?  
Kf8;) Rc7+/iii 4.Kb6/iv Rc6+  
5.Kb5 Rc5+ 6.Kxc5 c1Q+ 7.Rxc1  
Rxa3 8.Kb4 Ra8 9.Rh1 Rb8+  
10.Kc5 Kd8 11.Kc6 Rc8+ 12.Kb7  
Rc7+ 13.Kb6 wins.

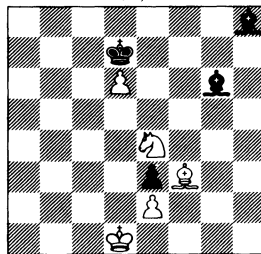
i) Rd8 2.Ra8, 3.Rxd8+ and mates.  
Kd8 2.Rc3 wins.

ii) 2.Rh1? c1Q 3.Rxc1 Rb3+ 4.Rxb3  
Rxc1.

iii) Kf8 4.Rxd3 c1Q 5.Rf3+ Ke8  
6.Rg8 mate.

iv) 4.Kxc7? c1Q+ 5.Rxc1 Rxa3.

**No. 8203** V. Yakovenko (xi.87)  
4th Prize, Shakhmaty  
v SSSR, 1987

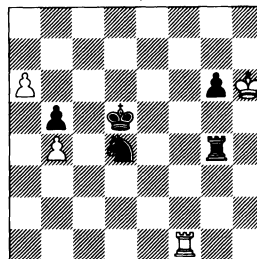


Win 5 + 4

**No.8203:** V.Yakovenko (Donetsk).  
1.Bg4+ Kc6/i 2.d7 Kc7 3.Sg5 (Sc5?  
Bf7;) Bb1/ii 4.d8Q+ (Sf7? Bf6;)  
Kxd8 5.Sf7+ Ke7 6.Sxh8 Kf6 7.Bh5  
Ba2/iii 8.Be8/iv Bb3+9.Kel/v Bc2  
10.Bb5/vi Kg7 11.Bd3 Bxd3 12.ed  
Kxh8 13.Ke2 Kg7 14.Kxe3 wins.

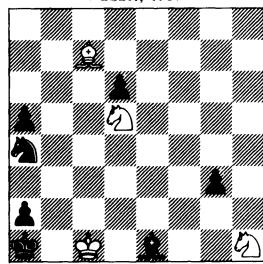
- i) Kd8 2.Sc5 Be8 3.Sb7 mate.
- ii) There was the threat 4.Se6 + Kxd7 5.Sf4(f8) + and 6.Sxg6.
- iii) For Kg7 9.Sg6 Kh6 10.Sf4 Kg5.
- iv) 8.Kc2? Kg7 9.Sf7 Bxf7 10.Bxf7 Kxf7 11.Kd3 Ke6 12.Kxe3 Ke5.
- v) 9.Kcl? Bc4 10.Kdl Bb3 + is no more than repetition.
- vi) 10.Bh5? Bb3. Bl was threatening the symmetry-based continuation Kg7 11.Sf7 Kf8 12.Sd6 Ke7.

No. 8205 P. Arestov (xii.87)  
6th Prize, Shakhmaty  
v SSSR, 1987



Draw 4 + 5

No. 8204 O. Pervakov (iii.87)  
5th Prize, Shakhmaty  
v SSSR, 1987



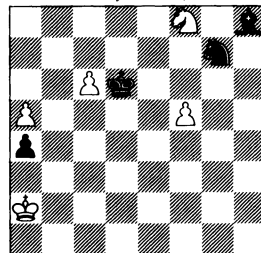
Win 4 + 7

- No.8204:** Oleg Pervakov (Moscow).  
1.Bd8/i g2 2.Bf6 + Sc3 3.Sxc3 Bh4 (ghQ; Sd1 +) 4.Bd4/ii Bg5 + 5.Kc2 Be3 6.Bf6 + /iii Bg5 7.Bg7 Bh6 8.Bh8 Bg7 9.Bxg7 g1Q/iv 10.Sg3 Qxg3/v 11.Bd4 wins, and the point of leaving bPd6 on the board finally emerges -its presence prevents the defensive pinning move bQg3-c7.
- i) 1.Se3? Bd2 + 2.Kc2 Bxe3 3.Bxd6 Bd4. 1.Bxd6? would not win, as will be seen.
  - ii) 4.Bg7? g1Q +. 4.Bh8? Bg5 + and ghQ.
  - iii) 6.Bxe3? ghQ 7.Bd4 Qc6, pinning.
  - iv) Bl seems to have outwitted W, for if now 10.Bf6? Qc5 11.Bg7 (Sg3, Qf2 +;) Qc7 12.Bd4 Qc4, with a perpetual pursuit.
  - v) Qc5 11.Se4 Qc7 12.Sd2 a4 13.Bd4, with 14.Kcl, and wS will mate.

**No.8205:** Pavel Arestov (Rostov region). 1.a7 Rh4 + 2.Kg7 (else Rh8;) Se6 + 3.Kg8 Sc7 4.Rf7 (Rc1? Rc4;) Sa8/i 5.Rf8 Kc6 6.Rxa8 Kb7 7.Rb8 + /ii Kxa7 8.Rxb5 Rh5 9.Rc5Rxc5 10.bc Kb7, and now 'chasing two hares' as Russian puts it, draws: 11.Kf7 g5 12.Ke6 g4 (else Kf5) 13.Kd7, supporting wPc5 and drawing.

- i) Rxb4 5.Rd7 + Ke6 6.Rxc7 Ra4 7.Rb7.
- ii) 7.Rf8? Kxa7 8.Rf7 + Kb6 9.Rf6 + Kc7 10.Rxg6 Rxb4, with an easy win. 'The wellknown 'Réti' is combined with the less familiar Fritz idea (Prace, 1953):' d1b1 0401.11 d3h1f1.a2f6 4/3 +. 1.a3 Rxf1 + 2.Ke2 Rf4 (else wRd1) 3.Rb3 + Ka2 4.Rb4 wins, this version being a correction.

No. 8206 V. Lovtsov (ii.87)  
= 1/2 Hon. Mention,  
Shakhmaty v SSSR, 1987



Win 5 + 4

**No.8206:** V.Lovtsov (Magadan region). 1.c7 Kxc7 2.f6 Kb7(b8)/i 3.f7 Ka7 4.Kb1/ii 5. Kc2/iii Ka7 6. Kc1 Ka8 7. Kb1 Ka7 8. Ka2 a3 9. a6 Ka8 10.Kxa3 Ka7 11.Ka4 Kxa6 12.Kb4 Ka7/iv 13.Ka5 Ka8 14.Ka6 wins.

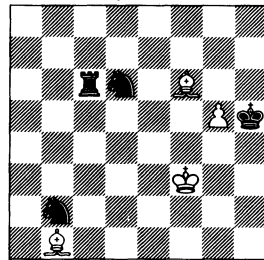
i) Kc6 3.f7 Kb5 4.a6 Kxa6 5.Sd7 Se6 6.Sc5 +.

ii) 4.Ka3? Sf5 5.Se6 Bf6 6.f8Q Be7 +. 4.a6? a3 (zugzwang) 5.Kb3 Kxa6 6.Kxa3 Ka5 7.Kb3 Kb5 8.Kc2 Kc6.

iii) 5.Kc1? Ka7 6.Kc2, fails to Sf5 7.Se6 Sd4 + 8.Sxd4 Bg7 9.Se6 Bh6 10.Kc3 a3!1.Kb3 Ka6, and a draw.

iv) Sf5 13.Se6 Bf6 14.Sc5 +.

**No. 8207** V. Vinichenko (vi.87)  
= 1/2 Hon. Mention,  
Shakhmaty v SSSR, 1987



**No.8207:** V.Vinichenko (Novosibirsk). 1.g6/i Se4/ii 2.Bxb2 Sd2 + 3.Ke2 Sxb1 4.g7 Rc2 + /iii 5.Ke1 Rc8 6.Kd1/iv, and Kh6 7.g8Q Rxc8 8.Kc2 Rg1 9.Bc1 + drawing (with a check (cheque), or Kh4 7.g8Q Rxc8 8.Kc2 Rg1 9.Bc1 Sc3 10.Be3 Rg3 11.Bf2, this time with a drawing-pin.

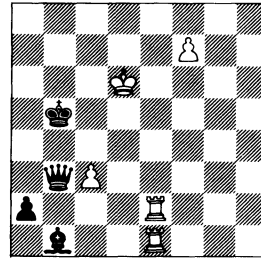
i) 1.Bxb2? Rb6 2.g6 Rb3 + 3.Kf4 Rxb2 4.g7 Rg2 wins.

ii) dSc4 2.g7 Rxf6 + 3.Kg3 Rf1 4.Bg6 + and 5.g8Q.

iii) To provoke the error 5.Kd1? Rc8, with W in zugzwang: 6.g8Q Rxc8 7.Kc2 Rg1 8.Bc1 Sc3 9.Be3 Rg3.

iv) The kernel. B1 is in zugzwang, as bK has no good move.

**No. 8208** N. Kondratiuk, M. Kreimer  
and O. Pervakov (iii.87 and viii.88)  
3 Hon. Mention, Shakhmaty  
v SSSR, 1987



**No.8208:** N.Kondratiuk, M.Kreimer and O.Pervakov. 1.c4 + /i Kxc4 2.Rxa2 Bxa2/ii 3.Re4 + /iii, and:Kb5 4.Re5 + Kb6 5.f8Q Qb4 + 6.Rc5 Qxc5 + 7.Kd7 Qxf8 stalemate, or Kd3 4.f8Q/iv Qa3 + 5.Rb4 Qxb4 + 6.Ke5 Qd4 + 7.Kf5 Qf2 + 8.Ke5 Qxf8 stalemate.

i) 1.Rxa2? Bxa2 2.c4 + Qxc4 3.Re5 + Kb6 4.f8Q Qc7 mate.

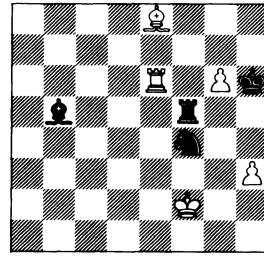
ii) Qxa2 3.Rxb1 and 4.Ke7.

iii) 3.Re8? Qg3 + 4.Ke7 Qg5 + 5.Kd7 Qg7.

iv) 4.Re3 + ? Kxe3 5.f8Q Qb4 + 6.Ke5 Qd4 + 7.Kf5 Qf4 +. This joint effort arose out of a quick composing tourney (theme: echoed stalemate) at Odessa in 1986.

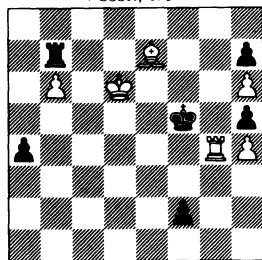
The study had a chequered career towards soundness: 'Quick composing is good, but maybe medium-speed is better!'

**No. 8209** M. Matous (vii.87)  
4 Hon. Mention,  
Shakhmaty v SSSR, 1987



**No.8209:** Mario Matous (Prague).  
 1.Re4/i Sd5 + /ii 2.Kg3 Sf6 3.Rh4 +  
 Sh5 + (Kg5; g7) 4.Rxh5 + Rxh5 5.g7  
 Rg5 + 6.Kh4 Bd3 (Bxe8; g8Q) 7.Bg6  
 Bc4 8.Bf7 Bxf7 9.g8S + (g8Q?  
 Rh5 + ;) Kg6 10.Se7 + Kf6 11.Sg8 +  
 Kf5 12.Se7 + /iii Kf4 13.Sd5 + Kf5  
 14.Se7 + Kf6 15.Sg8 + , drawing due  
 to latent stalemates.  
 i) 1.Re3? Sd5 + . 1.Re1? Sd3 + .  
 ii) Sh5 + 2.Ke3 Sf6 3.Bxb5 Sxe4  
 4.Bd3.  
 iii) 12.Sh6 + ? Kg6 13.Sxf7 Rd5  
 14.Sg5 Rd4 + .

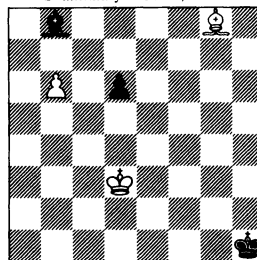
**No. 8210** A.G. Kopnin and  
 V. Kondratev (viii.87)  
 5 Hon. Mention, Shakhmaty  
 v SSSR, 1987



Draw 6 + 6

**No.8210:** A.G.Kopnin and V.Kon-  
 dratev (Chelyabinsk). 1.Rg8/i  
 Rxb6 + 2.Kd5 Rf6/ii 3.Bd6 Re6  
 4.Rf8 + Rf6 5.Rg8 Rf7 6.Be5/iii  
 Rd7 + 7.Bd6 Rf7 8.Be5 Rd7 +  
 9.Bd6 Kf6 10.Rf8 + Rf7 11.Be5 +  
 Ke7 12.Bd6 + Kf6 13.Be5 + Kg6  
 14.Rg8 + Kxh6 15.Rd8/iv Kg6  
 16.Rg8 + Kh6 17.Rd8 Rf6 18.Bxf6  
 f1Q 19.Bg5 + Kg6 20.Rd6 + Kf7  
 21.Rd7 + Ke8 22.Rd8 + perpetual  
 check.  
 i) 1.Rg7? Rxb6 + 2.Kd5 Rf6 3.Bd6  
 Rxd6 + 4.Kxd6 Kf6 5.Rg8 Kf7.  
 ii) Rb5 + 3.Bc5 Rxc5 + 4.Kxc5 Ke4  
 5.Rf8 Ke3 6.Kb4 drawn.  
 iii) 6.Rg7? Kf6 7.Be5 + Ke7 8.Bd6 +  
 Ke8 9.Rg8 + Kd7 10.Rb8 Rf5 +  
 wins, avoiding f1Q? 11.Rb7 + .  
 iv) The only way!

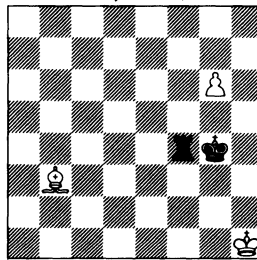
**No. 8211** I. Galushko (i.87)  
 = 6/7 Hon. Mention,  
 Shakhmaty v SSSR, 1987



Win 3 + 3

**No.8211:** I.Galushko (Volgograd).  
 1.Bd5 + Kg1 2.Ke2/i Kh2 3.Kf2 Kh3  
 4.Kf3 Kh 25.Kg4(f4) Kg1 6.Kf5 Kf2  
 7.Ke6 Ke3 8.Kd7 Kd4 9.Kc6 (Kc8?  
 Kc5;), 10.Kb7, and 11.Kxb8 wins.  
 i) 2.Kc4? Kf2 3.Kb4 Ke3 4.Kb5 Kd3  
 5.Kc6 Kd4, and W is in zugzwang.

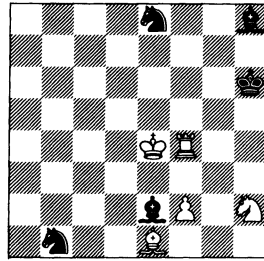
**No. 8212** B. Rivkin (vii.87)  
 = 6/7 Hon. Mention,  
 Shakhmaty v SSSR, 1987



Win 3 + 2

**No.8212:** B.Rivkin (Moscow). 1.g7  
 Kh5/i 2.Be6/ii Rf1 + 3.Kh2/iii  
 Rf2 + 4.Kg3 Rf1 5.Bh3 Rf7(f6)  
 6.g8Q Rg7 + 7.Bg4 + , the winning  
 interpolating check.  
 i) Kf3 2.Be6 Kf2 3.Kh2 wins, but not  
 3.Bh3? Rf3 4.Bg4 Rf6.  
 ii) 2.Bf7 + ? Kh6 3.g8Q Rf1 + 4.Kh2  
 Rh1 + 5.Kg2 Rg1 + 6.Kxg1 stale-  
 mate.  
 iii) 3.Kg2? Rf6 4.Bg4 + Kh6 5.g8Q  
 Rf2 + 6.Kg3 Rf3 + 7.Kh4 Rh3 +  
 and stalemate.

No. 8213 A. Ivanov (iv.87 and iv.88)  
Commended, Shakhmaty  
v SSSR, 1987



Win 5 + 5

**No. 8213:** A. Ivanov (Chuvash autonomous region). 1. Rf8 Bc3/i 2. Bxc3 Sxc3 + 3. Kd4 Sb5 + 4. Ke3 Bh5 5. Rh8 + Kg5 (Kg6; Rxe8) 6. f4 + Kh4 7. Sf3 + Kg4 8. Se5 + Kh4 9. Sg6 + Kg4 10. Rxe8 Bxg6 11. Re5 S- 12. Rg5 +, and 13. Rxc6 wins.

In the initial version wBa5 (now wBe1) allowed a draw by 1. Rf8 Sd6 + 2. Ke3 Bg7 3. Rb8 Bh5 4. Rb6 Be5 5. f4 Sa3.

i) Sd6 + 2. Ke3 Bg7 3. Rb8 Bb5 4. Rb6 Bf8 5. Bb4 wins.

i) Kxf5? 2. Bxe1, and 3. Sc3. Kg7 2. Be5 + Kf8 3. Bg6.

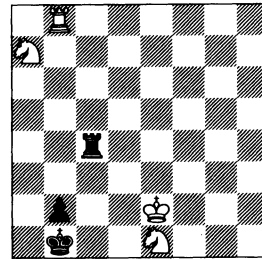
ii) The h4 square is now blocked.

iii) Threatening 7. Bd1 + Qxd1 8. Se3 +.

iv) Bc8 7. Bd1 + Kf5 8. Bc2 + Qxc2 9. Se3 + Ke4 10. Sxc2 Kd3 11. Bg5 Kxc2 12. b5 Bd7 13. Be3 Bxb5 14. Bxa7 Bd7 15. Bf2.

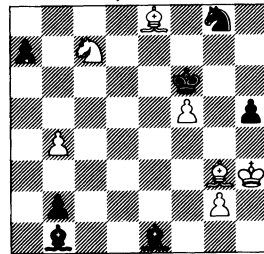
v) Qe4 10. Be2 + Qxe2 11. Sf4 +.

No. 8215 A. Maksimovskikh and  
V. Shupletsov (vi.87)  
Commended, Shakhmaty  
v SSSR, 1987



Win 4 + 3

No. 8214 G. Slepian (iv.87)  
Commended,  
Shakhmaty v SSSR, 1987



Draw 7 + 7

**No. 8214:** G. Slepian (Minsk). 1. Sd5 + Kg5/i 2. Bxe1 Bxf5 + 3. Kg3 h4 + /ii 4. Kh2 b1Q 5. Bd2 + Kg4 6. Ba4/iii Bc2/iv 7. Bd7 + Kh5 8. Be8 + Bg6 9. Bb5 Bd3/v 10. Be8 + Kg4 11. Bd7 + Bf5 12. Ba4, positional draw.

**No. 8215:** A. Maksimovskikh and V. Shupletsov (USSR). 1. Sb5/i Ka2 2. Sd3/ii, with: b1Q/iii 3. Ra8 + Kb3 4. Ra3 + Kc2 5. Rc3 + Rxc3 6. Sd4 mate, or Rc2 + 3. Ke3 b1Q/iv 4. Ra8 + Kb3 5. Sd4 + Kc4 6. Rc8 + Kd5 7. Rd8 + Kc4 8. Se5 + Kc3/v 9. Rc8 + Kb2 10. Sd3 + Ka2 11. Ra8 mate.

i) 1. Sd3? Ka1 2. Rxb2 Re4 + 3. Kf2 Rf4 + 4. Kg2 Rg4 + 5. Kh2 Rh4 +, bR being a desperado.

ii) 2. Ra8 + ? Kb3 3. Sa3 Ra4.

iii) b1S 3. Ra8 + Kb3 4. Ke3 Sc3 5. Sd4 +. Ra4 3. Sc3 + Ka1, and now 4. Sc5, but not 4. Sxb2? Rb4 5. Rxb4 stalemate.

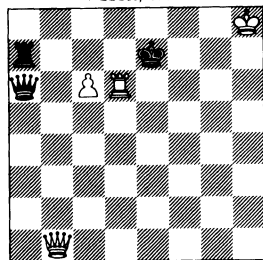
iv) b1S 4. Ra8 + Kb3 5. Sd4 +.

v) Kc5 9. Se6 + and 10. Rb8 +.

'A pair of checkmates with self-blocks.'



No. 8216 S. Osintsev (vii.87)  
Commended, Shakhmaty  
v SSSR, 1987

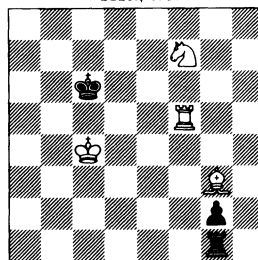


Win 4 + 3

**No. 8216:** S.Osintsev (Sverdlovsk).  
1.Qb4/i Qc8 + /ii 2.Kg7 Ke8 + /iii  
3.Kg8 (Kg6? Rf7;) Ke7 + 4.Rd8 +  
Kxd8 5.Qd6 + Rd7 6.c7 + Qxc7  
7.Qf8 mate.  
i) 1.Rd7 + ? Rxd7 2.Qh7 + Kf6  
3.Qxd7 Qb5 4.Qd6 + Kf7.  
ii) Qa1 + 2.Kg8 Ra8 + 3.Rd8 +  
Kxd8 4.Qd6 + mates.  
iii) Qf8 + 3.Kg6 Qe8 + 4.Kg5 Kf7  
5.Qf4 + Kg8 6.Rg6 + Rg7 7.Rxg7 +  
Kxg7 8.Qf6 + Kh7 9.Qh6 + .

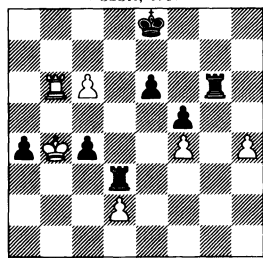
i) B1 hopes to transfer bR to d7 and  
hide bK on d6. Rg3 6.Kxa4 Rh3 7.h6  
Kb7 8.h7 Rh6 9.Kb5, heading for the  
g7 square.  
ii) 6.Kb5? is premature, Kb7 7.h6  
Rg3 8.h7 Rh3 9.Kb4 a3.  
iii) Try: 7.h7? Kd6 8.Kxc4 Rc7 +  
9.Kd4 Rd7 10.Ra8 e5 + 11.fe +  
Ke6 + and Rxh7.  
iv) a3 8.h7 a2 9.Rc8 + Kxc8  
10.h8Q + Rd8 11.Qc3 Rxd2 12.Kc6.

No. 8218 B. Rivkin (xii.87)  
Commended, Shakhmaty  
v SSSR, 1987



Win 4 + 3

No. 8217 V. and L. Katsnelson (x.87)  
Commended, Shakhmaty  
v SSSR, 1987



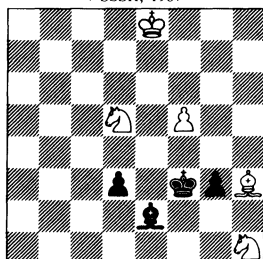
Win 6 + 7

**No. 8217:** V. and L.Katsnelson (the  
Leningrad brothers). 1.Rb8 + Rd8  
2.c7 Rc8 3.Rxc8 + Kd7 4.Rh8 Kxc7  
5.h5 Rg7/i 6.h6/ii Rd7 7.Kc5/iii  
Rd5 + /iv 8.Kxc4 Rd7 9.h7 Kd6  
10.Ra8 Rc7 + 11.Kd4 Rxh7  
12.Ra6 + , 13.Ra7 + and 14.Rxh7,  
winning.

**No. 8218:** B.Rivkin. 1.Se5 + Kb7  
2.Rf7 + Kc8/i 3.Rf8 + Kb7 4.Rb8 +  
Ka6 (Kxb8; Sf3 +) 5.Ra8 + Kb7  
6.Ra7 + Kc8 7.Sc6 Rc1 + 8.Kd5  
Rd1 + 9.Ke6 Rel + 10.Kf7 Rf1 +  
11.Kg8 Rf4 12.Bxf4 g1Q + 13.Rg7  
Qb6 14.Sa7 + Kd8 15.Bg5 + Ke8  
16.Re7 + Kd8 17.Rb7(e6) + and  
18.Rxb6 wins.  
i) Ka6 3.Ra7 + Kxa7 4.Bf2 + wins.

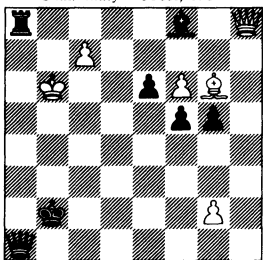
**No. 8219:** V.Israelov and the late A.V.  
Sarychev. 1.f6 g2/i 2.Bxg2 + Kxg2  
3.f7 Bh5 4.Sf4 + Kxh1 5.Sxh5 d2  
6.Sg3 + Kg2/ii 7.Sf1 (Sf5? Kf2;) d1Q  
(Kxf1; f8Q +) 8.Se3 + ,one last fork,  
winning.  
i) d2 2.f7 d1Q 3.f8Q + Ke4 4.Sc3 +  
wins.  
ii) Kh2 7.Sf1 + . Kg1 7.Se2 + and  
8.Sc3.

No. 8219 V. Israelov and  
A.V. Sarychev (v.87)  
Commended, Shakhmaty  
v SSSR, 1987



Win 5 + 4

No. 8220 V. Kondratev (xi.87)  
Prize, Special Section,  
Shakhmaty v SSSR, 1987



Win 6 + 7

**No.8220:** V.Kondratev (Gavrilov posad). This section was for 'romantic ideas'.

1.f7 + Ka2 2.Qxa1 + Kxa1 3.Bxf5/i ef 4.Kb7 Ra2 5.c8Q Rb2+ 6.Ka6 Ra2+ 7.Kb5 Rb2+ 8.Ka4 Ra2+ 9.Kb3 Rb2+ 10.Kc3/ii Bg7+ 11.Kd3 Rb3+ 12.Ke2 Rb2+ 13.Kf1 Rb1+ 14.Kf2 Rb2+/iii 15.Kg1 Rb1+ 16.Kh2 Be5+ 17.g3 Rb2+ 18.Kh3 g4+ 19.Kh4 Bf6+ 20.Kh5/iv Rh2+ 21.Kg6 wins.

i) Wait for note (iv)! 3.Kb7? Ra2 4.Bxf5 Rb2+ 5.Ka6 Ra2+ 6.Kb5 Rb2+ and now 7.Ka4 Rb4+ 8.Ka5 Rc4.

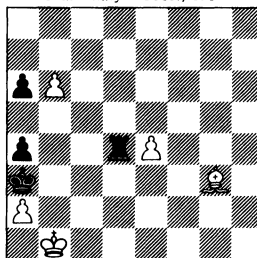
ii) Crossing the c-file, but there's a long way to go yet.

iii) Bd4+ 15.Ke2 Rb2+ 16.Kd3.

iv) Is it all over yet? Yes, but only because wK has the square g6 available.

The 'Special section' was for 'romantic ideas'.

No. 8221 K. Sumbatyan (xi. 86)  
Hon. Mention, Special  
Section,  
Shakhmaty v SSSR, 1987



Win 5 + 2

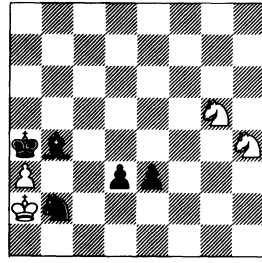
**No.8221:** K.Sumbatyan (Moscow).  
1.b7 Rb4+ 2.Ka1 a5 3.b8B/i Rxe4  
4.bBd6+ Rb4 5.Bc7 R-/ii 6.gBd6+  
Rb4 7.Be5 R- 8.cBd6+ Rb4 9.Bb2  
mate.

i) 3.b8Q? Rb1+ and stalemate.  
3.b8S? Rxe4 4.Bd6+ Rb4 5.Bxb4+  
ab.

ii) Well, Rb1+ 6.Kxb1 Kb4 7.either  
Bd6+ and 8.a3.

Columnist Kuznetsov decreed that this genuine 1986 study qualified for the 1987 tourney because Sumbatyan disqualified himself in 1986 - by being that year's judge! A different way to resolve this ethical dilemma is for a second judge to be responsible for judging a judge's entry. An alternative alternative is for the study not to compete in any tourney. To my mind the 'second judge' solution is the best as being fairest to all concerned - and the tidiest, for it causes least confusion in the long run, since only one question has to be answered, namely: how did a judge judge his own entry?

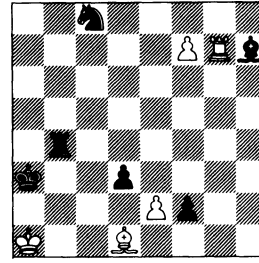
No. 8222 E. Kolesnikov (xii.87)  
Hon. Mention, Special  
Section,  
Shakhmaty v SSSR, 1987



Draw 4 + 5

**No.8222:** E.Kolesnikov (Moscow).  
1.Sg2 e2/i 2.Se4 (Sf3? Bc3;) Bxa3  
3.Sc3+ Kb4 4.Sxe2 de 5.Sf4 e1B/ii  
6.Sd5+ Ka4 7.Sb6+ Kb4 8.Sd5+  
Kc5 9.Se3 eBb4 10.Sc2 Sc4 11.Kb3  
Sd2+/iii 12.Ka4 Sb1 13.Kb3 Sd2+  
1.Ka4, positional draw.  
i) Sc4 2.ab d2 3.Se4.  
ii) e1Q 6.Sd3+. e1S 6.Sd5+ Ka4  
7.Sb6+ Kb4 8.Sd5+ with perpetual  
check. Now we have the 'Veitch'  
force of two like B's and S against S.  
iii) Kb5 12.Sd4+ Kc4 13.Se6+, per-  
petual.

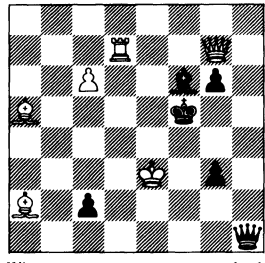
No. 8224 A. Kotov  
and V. Razumenko (x.87)  
Commended, Special Section,  
Shakhmaty v SSSR, 1987



Draw 5 + 6

**No.8224:** A.Kotov and V.Razu-  
menko (Leningrad). 1.f8Q f1Q  
2.Ra7+/i Sxa7 3.Qxf1 Rb1+  
4.Kxb1 de+ 5.Ka1, with: efB 6.Be2  
Bg2/ii 7.Bf3 Bh3 8.Bg4 Bg2 9.Bf3  
Bf1 10.Be2, with perpetual pursuit  
of the promoted bB, or efS 6.Bc2  
Bg8/iii 7.Bh7 Bf7 8.Bg6 Be6 9.Bf5  
Bd5 10.Be4 Bc4 11.Bd3 Bb3 12.Bc2  
Ba2 13.Bb1, with perpetual pursuit  
of the unpromoted bB.  
i) 2.Qxf1? Rb1+ 3.Kxb1 de+ and  
efQ.  
ii) Sc6 7.Bxf1 Sd4 8.Bc4 Sc2+ 9.Kb1  
Se3+ 10.Kal draw.  
iii) Sd2 7.Bxh7 Sc6 8.Bc2 Sd4 9.Bd1  
drawn.  
Again with 'extra' pieces.

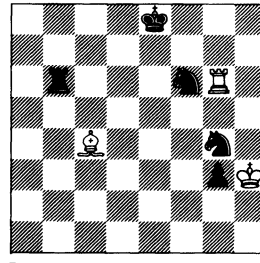
No. 8223 V. Vinichenko  
(vi.86 and iii.87)  
Commended, Special Section,  
Shakhmaty v SSSR, 1987



Win 6 + 6

**No.8223:** V.Vinichenko (Novosi-  
birk). 1.Be6+ Kg5 (Kxe6; Qf7+)  
2.Rd5+ Qxd5 3.Bxd5 c1Q 4.Bd2 g2  
5.Bxg2 Qxc6 6.Kd3+ Kf5 7.Qxf6+  
Qxf6 8.Bh3+ Ke5 9.Bc3+ wins.

No. 8225 E. Janosi (i.90)  
1st Prize, CHESS LIFE,  
1988-89  
award: xii.90



Draw 3 + 5

**No. 8225:** Ervin Janosi (now of  
Hungary, was Romania). Judge: Pal

Benko. Prizes were supplied by Heraldica Imports. Chess Life columnist Benko has worked with date of receipt rather than date of publication. Consequently, some studies in this '1988-89' event were published in 1990. This is irregular for an informal tourney, but we know that space for Benko's column was restricted.

1.Be2/i Sf2+/ii 2.Kxg3 Kf7/iii 3.Rh6 S6e4+ 4.Kh4 Rb1/iv 5.Bf3 Rb3 6.Rh5/v Rxf3 7.Rf5+ Rxf5 stalemate.

i) 1.Bd5? is a thematic try, based on Sf2+? 2.Kxg3 S6e4+ 3.Kh2 Rxg6 4.Bf7+ Kxf7 stalemate, but g2! 2.Rxg2 Sf2+ 3.Kh4 Kf7, and 4.Rg5(g3) Rb4+, or 4.Rh6 Kg7. 1.Kxg3? Se5 2.Bb5+ Kf7 with a win. 1.Bf1? Sf2+ 2.Kg2 S2e4 and will also win.

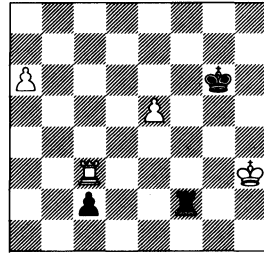
ii) Kf7 2.Rxg4 Sxg4 3.Bxg4 Rb3 4.Kg2 Kf6 5.Bf3 drawn.

iii) S6e4+ 3.Kf4 Rxg6 4.Bh5 draw.

iv) Rxh6+ 5.Bh5+ and stalemate. Rb4 5.Bh5+ Kg7 6.Rg6+, and Kh7 7.Rg1 Sf6+ 8.Kg3 S2e4+ 9.Kh4, or Kf6 7.Bg4 Rg3 8.Rf5+ and 9.Rxf2, drawing.

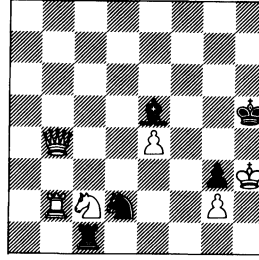
v) 6.Bg2? Rg3 7.Rh7+ Kg8 8.Bxe4 Rh3+ 9.Kg5 Sxe4+ wins. 6.Bg4? Rg3 7.Bf5 Rf3 8.Bc8 Rf4+ 9.Kh5 Sh1 10.Be6+ Kf8 11.Rh8+ Kg7 12.Rg8+ Kh7 13.Rg4 Slg3+ 14.Kh4 Rf6 15.Bg8+ Kh8 16.Kh3 Sf2+ wins.

No. 8226 R. Becker (x.88)  
2nd Prize, CHESS LIFE,  
1988-89  
also: best American entry



No. 8226: Richard Becker (Oregon, USA). 1.Kg3 Re2 2.Kf4 Kf7 3.Kf5 Rf2+ 4.Ke4 Ke6 5.a7 c1Q 6.Rxc1 Ra2 7.Rc6+ Kd7 8.Rh6 Rxa7 9.e6+ (Rh7+? Ke6;) Kd6 10.e7+ Kd7 11.e8Q+ Kxe8 12.Rh8+ Kf7 13.Rh7+ wins.

No. 8227 S. Polgar (vi.88)  
3rd Prize, CHESS LIFE,  
1988-89

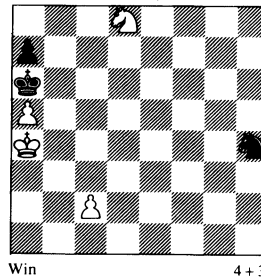


No. 8227: Zsuzsa (Susan) Polgar (Hungary). 1.Se1/i Rxe1 2.Rb1 Sxe4 3.Qxe4 Rxe4 4.Rb4 Bd4 5.Rb5+ Be5 6.Rb4 Re1 (Re3; Re4) 7.Rb1 Re4 (Re2; Re1) 8.Rb4 Bd4 9.Rb5+ drawn.

'All three Polgar sisters are quite interested in the artistic side of chess.' Which, being interpreted, can only mean that they will always put the game first!

i) 1.Rb1? Rxb1 2.Qxb1 Sxb1 3.Se3 Sc3 4.Sc4 Bf4 wins.

No. 8228 R. Becker (i.90)  
1 Hon. Mention,  
CHESS LIFE, 1988-89



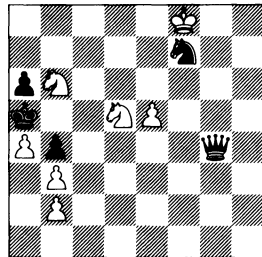
No. 8228: R.Becker. 1.c3/i Sf5 2.c4 Sd6/ii 3.c5 Sb7 4.c6 Sxd8/iii 5.c7 Sb7 6.c8R Sxa5 7.Rc5 Sb7 8.Rc6 mate.

i) 1.c4? Sf5 2.c5 Se7 3.c6 Sd5 4.Sb7 Sc3+ 5.Kb4 Sd5+ 6.Kc5 Se7 7.Kd6 Sxc6 8.Kxc6 stalemate, just one possibility, naturally.

ii) Se7 3.c5 Sd5 4.c6 Sc3+ 5.Kb4 Sd5+ 6.Kc5 Se7 7.Kd6 Sf5+ 8.Kd7 wins.

iii) The Dutch composer Weenink's study (year 1918) starts here.

No. 8229 J. Lerch (vii.88)  
2 Hon. Mention,  
CHESS LIFE, 1988-89



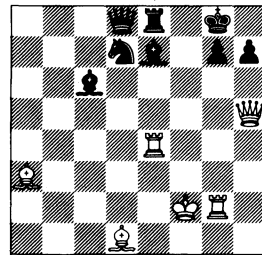
Win 7+5

**No. 8229:** Jan Lerch (Trinec, Czechoslovakia). 1.Se3 Sxe5 2.Sxg4/i Sd7+ 3.Ke7 Sxb6 4.Se5 (Se3? Sd5+;) Sxa4 5.Sc4+ Kb5 6.Sd6+ Ka5 7.Kd7/ii Sc5+ (Sxb2; Kc6) 8.Kc6 Sxb3 9.Sb7+ Ka4 10.Kb6 a5 11.Ka6 and mates.

i) 2.Sc4+? Sxc4 3.Sxc4+ Qxc4 4.bc Kxa4 5.Ke7 a5 6.c5 Kb5.

ii) 7.Sb7+? Kb6 8.ba Kxb7 9.Kd6 Kb6.

No. 8230 K. Shirazi (v.88)  
3 Hon. Mention,  
CHESS LIFE, 1988-89



Win 6+8

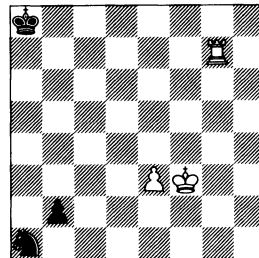
**No. 8230:** Kamran Shirazi (New York). 1.Qf7+ /i Kxf7 2.Bb3+ Kf6/ ii 3.Bb2+ Kf5 4.Be6+ Kxe4 5.Rg4+ Kd3 6.Bf5+ Be4 7.Rxe4

Kc2 8.Rb4+ Kd2 9.Rd4 mate.

i) 1.Bxe7? hopes for Rxe7? 2.Bb3+ Kh8 (Kf8; Rf4+) 3.Qxh7+ winning, but Qb6+! 2.Ke1 (Kg3,Sf6;) Rxe7 3.Rxe7 Qb4+.

ii) Kf8 3.Rf4+ Sf6 4.Rxf6+. Bd5 3.Bxd5+ Kf6 4.Bb2+ Kf5 5.Be6+ Kxe4 6.Rg4+ Kd3 7.Bf5+.

No. 8231 J.C. Aliaga (iii.90)  
Commended,  
CHESS LIFE, 1988-89



Draw 3+3

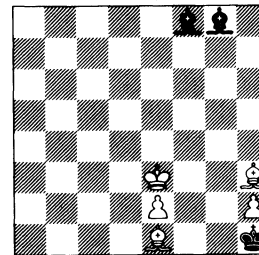
**No. 8231:** Juan Carvajal Aliaga (Bolivia). 1.Rg8+ Ka7/i 2.Rg7+ Ka6 3.Rg6+ Ka5 4.Rg1/ii Sb3 5.e4/ iii Kb6 6.Ke3 Sc1 7.Rg6+ Kc5 8.Rg5+ Kc4 9.Rg8 b1Q 10.Rc8+ Kb3 11.Rb8+ drawn.

i) Kb7 2.Rg7+ Kc6 3.Rg1 Sb3 4.Ke2 Sc1+ 5.Kd2 b1Q 6.Rxc1+ drawn.

ii) 4.Rg5+? Ka4 5.Rg1 Sb3 6.e4 Ka3 7.Ke3 Sc1 8.Rg8 b1Q 9.Ra8+ Kb2 wins.

iii) 5.Kf4? Sc1 6.Rg8 Sd3+ 7.Kf3 Ka4 8.Rg1 Sc1 9.Rg8 Sb3 10.Rg1 Ka3.

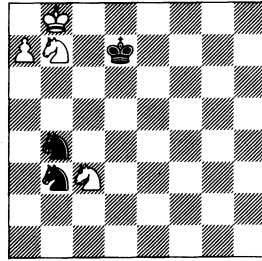
No. 8232 G. Amiryan (ix.89)  
Commended,  
CHESS LIFE, 1988-89



Win 5+3

**No. 8232:** Gamlet Amiryan (Armenia). 1.Bg3 Bc5 + 2.Kf3 Bd5 + 3.e4 Bxe4 + 4.Kxe4 Bg1 5.Kf3 Bxh2 6.Bg2 + Kgl 7.Bf2 mate.

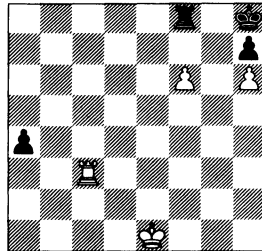
**No. 8233** R. Brieger (vii.88)  
Commended,  
CHESS LIFE, 1988-89



Win 4+3

**No. 8233:** Robert Brieger (Texas, USA). 1.Sd8 Sa6 + 2.Kb7 Sc7 3.Se6/i Sa5 + 4.Kb6 Sc4 + 5.Kc5 Sxe6 + 6.Kxc4 Sc7 7.Sd5 Sa8 8.Kc5 Kc8 9.Kc6 Kd8 10.Kb7 Kd7 11.Sb6 + wins.  
i) 3.Sc6? Sc5 + 4.Kb6 S5e6, and 5.Sb5 Sa8 + 6.Kb7 Sc5 + 7.Kxa8 Kxc6 8.Kb8 Sd7 + 9.Kc8 Sb6 +, or 5.Se4 Kc8 6.Se7 + Kd7 7.Sg6 Sa8 + 8.Kb7 Sd4 9.Kxa8 Sb5, drawing.

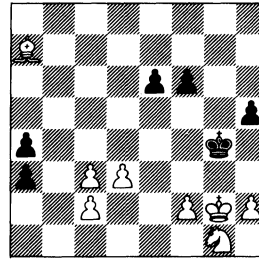
**No. 8234** R. Brieger (v.89)  
Commended,  
CHESS LIFE, 1988-89



Win 4+4

**No. 8234:** R. Brieger. 1.f7 a3 2.Rc2/i a2 3.Rxa2 Rb8 4.Rb2 Rc8 5.Rc2 Ra8 6.Kf2 (Ke2? Rd8;) Rf8 7.Kg2 Rd8 8.Re2 (Kg3? Rd3 +;) Rg8 + 9.fgQ + wins.  
i) 2.Rxa3? Rb8 3.Rb3 Ra8 4.Rb1 Rd8, drawing by perpetual check or stalemate.

**No. 8235** J.C. Infantozzi (v.90)  
Commended,  
CHESS LIFE, 1988-89



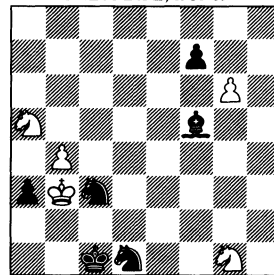
Win 8+6

**No. 8235:** Julio Cesar Infantozzi (Uruguay). 1.Sf3 e5/i 2.Sh4 Kxh4 3.h3 a2 4.f4 ef 5.Bd4 f3 + 6.Kh2 Kg5 7.c4 Kf4 8.Kgl wins, but not 8.c5? a1Q 9.Bxa1 Ke3 10.Kgl Ke2 11.Bd4 Bd4 a3 'and Bl is still alive'.

i) a2 2.h3 +, and Kf5 3.Sh4 + Kg5 4.Be3 + Kxh4 5.f4, or Kf4 3.Be3 + Kf5 4.Sh4 + Ke5 5.Bd4 + Kd5 6.Sf3 with 7.c4 +, winning.

The final study in the American award was not clearly identified; we read 'Rusinek' and '1574', but the latter is by Brieger. However, the adjacent Rusinek numbered 1575 is a nice pin stalemate number, so I'm assuming that's the one that Benko chose. The Brieger started with a capture.

**No. 8236** J. Rusinek (ix.90)  
Commended,  
CHESS LIFE, 1988-89



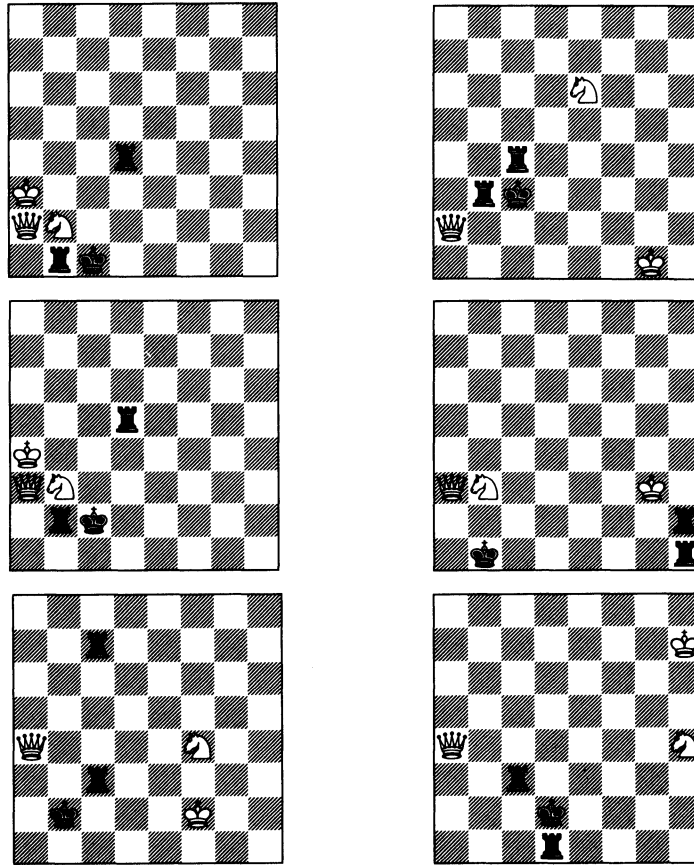
Draw 5+6

**No. 8236:** Jan Rusinek (Warsaw). 1. Se2 + /i Sxe2 (Kd2; Sxc3) 2. gf a2/ii 3. Kxa2 (f8Q? a1Q;) dSc3 + 4. Ka3/

iii Sb1+ 5. Ka2/iv bSc3+ (eSc3+; Ka1) 6. Ka3 Sb5+ 7. Ka4/v eSc3+ 8. Kb3 Be6+ 9. Sc4 Bxf7 stalemate.  
 i) 1. gf? a2 2. f8Q (Be2+, Kd2/) a1Q 3. Kc4 Qa2+ and 4. Sb3+ Kb2 5. Kc5 Qa7, of 4. Kc5 Qf2+ 5. Kd6 Qd4+ 6. Kc7 (Ke7, Qxb4+;) Sd5+ wins.  
 ii) Be6+ 3. Kxa3 Bxf7 (dSc3; Sb3+) 4. b5 Sd4 5. Kb4 (b6? Sc2+;) Se3 6. b6 draw.  
 iii) 4. Ka1? Sd4 mates. 4. Kb3? Be6+.  
 iv) 5. Ka4? eSc3+ 6. Kb3 Be6+ wins.  
 v) The b1 square is available for B1, so 5. Ka2? Bb1+ 6. Kb3 eSd4+ 7. Kc4 Ba2+ wins.

**\*C\* GBR class 1601**

With acknowledgement to the *ICCA Journal* (1 of 1992) we reproduce the first computer-generated (Stiller, Elkies et al.) reci-zugs in a 6-man ending.



**\*C\* GBR class 1300.01**

This startling sample of optimal play in the 5-man endgame queen against rook and pawn, a classic hunting-ground of endgame theory, is due to Lars Rasmussen of Denmark. The annotations were readily extracted with the user-friendly *ChessBase* interface. The commentary is largely Rasmussen's also.

h6b2 **1300.01** h7 c5. c4 2/3 +.

1. Qb7 + Kc1 2. Qh1 + Kb2 3. Dh2 + Kb3 4. Qb8 + Kc2 5. Qd6 Rb5 6. Qc6 Rb4 7. Qe4 + Kb3 8. Qb1 + Kc3 9. Qa2 Rb3 10. Qa4/i Rb4 11. Qa3 + Rb3 12. Qc5 Rb4 13. Kg7/ii Kb3 14. Qd5 Ka3 15. Qc6 Kb3 16. Qe6 Ka3 17. Qe3 + Kb2 18. Qe4 Ra4/iii 19. Qe2 + /iv Kc1 20. Qe3 + Kc2 21. Qd4 Rb4 22. Qe4 + Kb3 23. Qb1 + Kc3 24. Qa2 Kd3/v 25. Qa3 + Rb3 26. Qa6 Rb2 27. Kf6 Re2 28. Qb5 Kd4 29. Qa4 Re1 30. Kg5/vi Kd3 31. Qd7 + Kc3/vii 32. Kf4 Re2 33. Qa4 Kd3 34. Qd1 + Rd2 35. Qb1 + Kd4 36. Qb4 Rf2 + 37. Kg3 Ra2 38. Kf3 Kd3 39. Qd6 + Kc3 40. Ke3 Rb2 41. Qa3 + Rb3 42. Qc1 + Kb4 + 43. Ke2 Rd3 44. Qg5 Ra3 45. Qg7 Rd3 46. Qb7 + Kc3 41. Ke1 Rd2 48. Qf3 + Rd3 49. Qf6 + Kb3 50. Qb6 + Kc3 51. Qa5 + Kb3 52. Qb5 + Kc3 53. Qa4 Rd5/viii 54. Qa8! Rd3 55. Qa3 + Kd4/ix 56. Qa5 Rb3 57. Kd1 Rb1 + 58. Kc2 Rb3 59. Kc1 Rc3 + 60. Kb2 Rd3 61. Qb6 + Kd5 62. Qb5 + Kd4 63. Ka2 Rb3 64. Qc6 Kc3 65. Qd6/x Rb2 + 66. Ka3 Rb3 + 67. Ka4 Rb2 68. Qe5 + Kc2 69. Qd4 c3/xi 70. Qe4 + Kc1/xii 71. Ka3 Kd2 72. Qd4 + Kc2 73. Qc4 Kb1 74. Qf1 + Kc2 75. Qe2 + Kc1 76. Qd3 Rc2 77. Qd4 Kb1 78. Qd1 + Rc1 79. Qb3 + Ka1 80. Qa2 mate.

i) 10. Kg5? Kb4, and c4-c3.

ii) Explained by (iii).

iii) With wKg7 there is no check from bR followed by bPc4-c3.

iv) 19. Kf6? c3, draws, but not Ra6 + ? 20. Ke5 c3 21. Qb7 + Kc1 22.

Qxa6 c2 23. Qa2 Kd1 24. Kd4 c1Q 25. Kd3.

v) Rb3 25. Kf6 Kb4 26. Ke4, and if c3 (Rd3 is 'better') 27. Kd4 Ra3 28. Qc4 + Ka5 29. Kc5.

vi) The square f5 is needed for wQ.

vii) With wKf5 B1 can play bKc2, not blocking his pawn. Here, however, bKc2 fails tot 32. Qf5 + Kd2 33. Qd5 + Kc3 34. Qa5 +.

viii) Chéron III 1445c C, after move 2, continues: 54. Qa3 + Kc2 55. Qb4? Re5 + 56. Kf2 c3, draw.

ix) Kc2 56. Qb4 Re3 + (c3; Qe4) 57. Kf2, and wins by gaining a tempo on bR.

x) Chéron III 1445b.

xi) The first P-move. Note that 'conversion' (out of the database) is by winning promotion or capture, not P-advance. The database is therefore very large.

xii) chéron prefers Kd2 71. Ka3.

## OBITUARY

**JAN H. MARWITZ**  
Dutch Fidemaster  
Chesscomposition.

\* 8 Oct. 1915 - † 6 dec. 1991

Former problem-composer, he preferred Endgames.

He has seen his last book "Eindspelkunst" issued 30 Nov. 1991, one week before he died.