

# Конкурс кроссвордистов – “ГРОССВОРД” Crossword competition – "GROSSWORD"

(посвящается Международному дню шахматной композиции 4 января 2022 г)  
(dedicated to the International Day of Chess Composition on January 4, 2022)

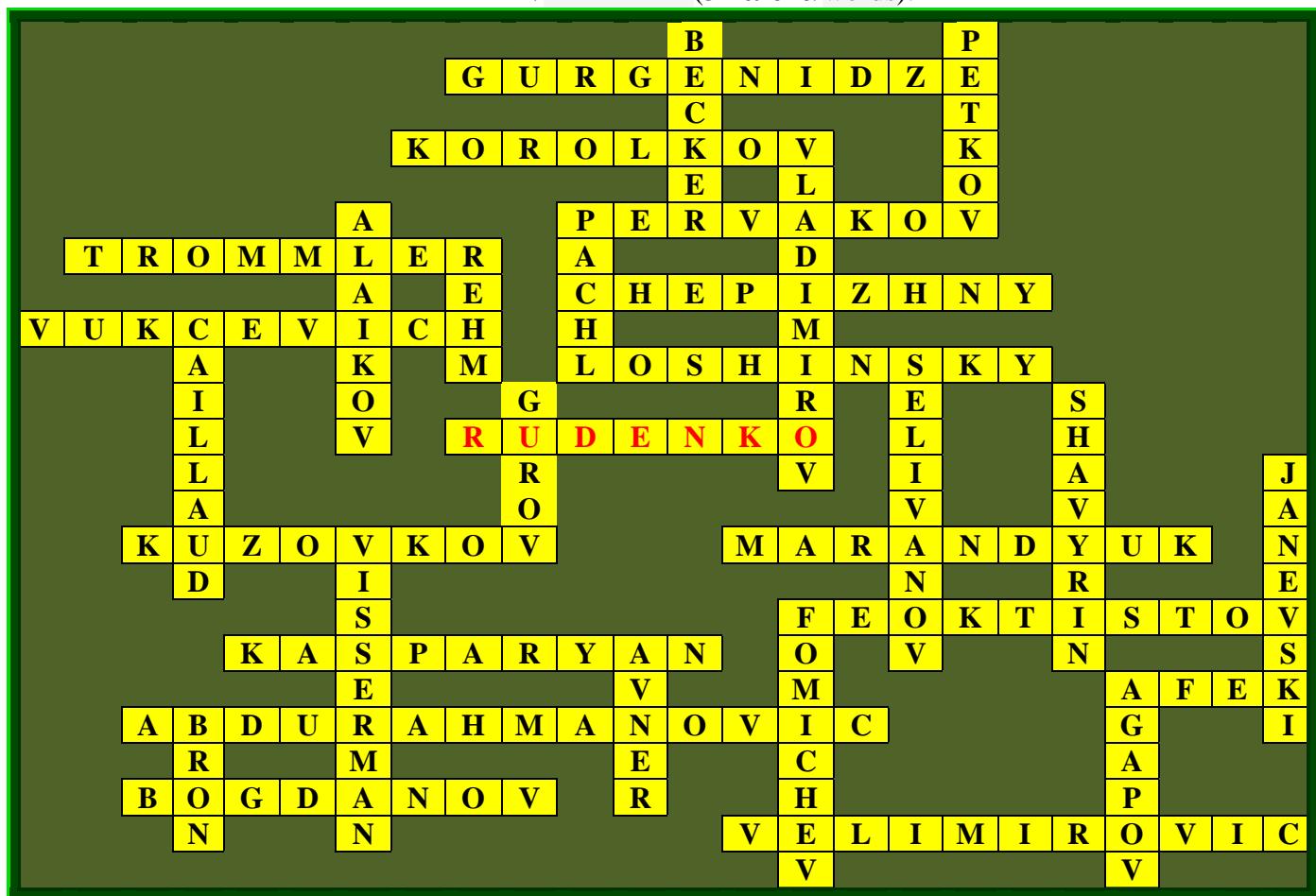
## Условия конкурса.

По правилам кроссворда вписать в квадрат 24x24 максимальное количество фамилий гроссмейстеров шахматной композиции (**их следует брать из Таблицы 1**). Сетка кроссворда должна быть связной, без изолированных участков, «оторванных» от остальной сетки. Любое слово должно быть пересечено как минимум дважды. Слова не должны повторяться.

## Conditions of the competition.

Based on the crossword puzzle principle, write the maximum number of names of chess composition grandmasters (**to be taken from Table 1**) inside a 24x24 square. The grid of the crossword puzzle should be coherent, without isolated areas “detached” from the rest of the grid. Any word must be crossed at least twice. Words may not be repeated.

ПРИМЕР/EXAMPLE (31 слово/words):



В 2007 году по предложению международного гроссмейстера **Валентина Руденко**

WFCC учредила 4 января Международным днем шахматной композиции.

In 2007, at the suggestion of International Grandmaster **Valentin Rudenko**,  
the WFCC established January 4 as the International Day of Chess Composition.

Кроссворды присыпать не позже **2 января 2022 г.** на адрес: [Popovgl@yandex.ru](mailto:Popovgl@yandex.ru) (Григорий Попов).  
Победитель определяется по максимальному числу использованных слов (фамилий гроссмейстеров).  
Допускаются совместные работы.

Crosswords are to be sent no later than **January 2, 2022**, by email to [Popovgl@yandex.ru](mailto:Popovgl@yandex.ru) (Grigory Popov).  
The winner is determined by the maximum number of inscribed words (grandmasters' names).  
Joint entries are allowed.

Таблица 1 100 гроссмейстеров шахматной композиции на конец 2021 г  
 Table 1 100 grandmasters of chess composition as of the end of 2021

Abdurahmanovic	Fomichev	Kuzovkov	Rehm
Afek	Fritz	Lindgren	Rice
Agapov	Gamnitzer	Linss	Rudenko
Ahues	Garai	Lobusov	Rusinek
Alaikov	Gavrilovski	Lorinc	Ryabinin
Aschwanden	Gockel	Loshinsky	Salai
Avner	Goldschmeding	Loustau	Selivanov
Azhusin	Goumondy	Macleod	Semenenko
Bakcsi	Grin	Mandler	Shanshin
Bartolovic	Gurgenidze	Mansfield	Shavyrin
Bazlov	Gurov	Marandyuk	Slesarenko
Becker	Gvozdjak	Minski	Sochnev
Bogdanov	Haring	Mladenovic	Soroka
Bron	Havel	Myllyniemi	Stojnic
Bruch	Heinonen	Nadareishvili	Styopochkin
Bwee	Janevski	Nestorescu	Tribowski
Caillaud	Jones	Pachl	Trommler
Chepizhny	Kasparyan	Pachman	Tura
Cheylan	Keller	Paros	Velimirovic
Csak	Kopyl	Parrinello	Visserman
Degener	Korolkov	Pervakov	Vladimirov
Dobrescu	Kovacevic	Petkov	Vukcevich
Dragoun	Kralin	Petrovic	Wenda
Dyachuk	Krikheli	Pilchenko	Widlert
Feoktistov	Krizhanivsky	Pogosyants	Zappas

### Дополнительный конкурс | An additional competition

Сделать кроссворд, используя таблицу имён гроссмейстеров на поле 8x8, таким образом, чтобы затем, заменяя буквы на фигуры (одинаковые буквы = одинаковые виды фигур), можно было получить корректную композицию любого жанра. В созданной композиции должен быть минимум ненужных фигур.

Make a crossword puzzle using grandmasters' names within an 8x8 square in such a way that a correct composition of any genre could be obtained by replacing letters with pieces (same letters standing for same type of pieces).

### ПРИМЕР | EXAMPLE

ПРИМЕР   EXAMPLE							
Белые/White				Чёрные/Black			
			S	L-Kg5	E- Ke3		
	G	A	R A I	H-Qe5	I I- Rg3, Rh6		
		H	L	T-Rd4	SS- Be2, Bg7		
T	U	R	A	G-Bd6	AAA-p e6, g4, g6		
	E		I	RR-Sf4, Sf6			
	S			U- P e4			
1. S4d5!+ exd5    2. Sxd5+ Kf2    3. Qxg3+ Kf1    4. Se3#				#4              7+8			

Этот пример доказывает теоретическую возможность создания такого кроссворда-композиции.  
 This example shows the theoretical possibility of creating such a crossword-based composition.

Кроссворды-композиции присыпать не позднее **2 января 2022 г.** на адрес: [Popovgl@yandex.ru](mailto:Popovgl@yandex.ru)  
 Crossword-based composition are to be sent no later than **January 2, 2022**,  
 by email to [Popovgl@yandex.ru](mailto:Popovgl@yandex.ru) (Grigory Popov).

**Итоги конкурса кроссвордистов – “ГРОССВОРД”**  
**The results crossword competition – "GROSSWORD"**

Победитель | Winner - **Michael Lütt(Germany)** (30+28 =**58** слов/words):

M				K				B			F			K	
B	A	R	T	O	L	O	V	I	C	E	R	U	S	I	N
C					R					C	I			L	D
L	O	B	U	S	O	V		A	F	E	K	W	T	R	O
E	W		L	V				E	E	Z			E	A	
J	O	N	E	S	K		N	G	R	I	N		G	R	G
D	E		G	O	C	K	E	L		D		U		O	
K			V		R		T	U	R	A	D	O	B	R	E
P	A	R	O	S		H		R				O			N
A	A				S	A	L	A	I	S	K	U	Z	O	V
C	L				V		B	R	O	N		A			
H	I		R	U	D	E	N	K	O	R		P	A	C	H
M	I	N	S	K	I		L		W	O	B	P		O	
A			C				C	S	A	K	R	A	Z	H	U
N		C	H	E	Y	L	A	N	K	A	H	U	E	S	H
K	A						I			C			I		P
L	O	R	I	N	C		F		S	O	C	H	N	E	V
V	L				O		H					D	S		R
B	A	Z	L	O	V		M		A	A		P	E	T	K
C	A		G	I		L	I	N	D	G	R	E	N	G	Y
E	U		B	A	K	C	S	I	S	A		E			K
V	D		R	H		N		H	P	A	R	R	I	N	E
I			J	A	N	E	V	S	K	I	O		E		V
C			I	V	S		N		V	I	S	S	E	R	M

AFEK crosses AVNER BECKER  
AGAPOV crosses LINDGREN PARRINELLO VISSERMAN  
AHUES crosses SOROKA BRUCH ZAPPAS  
AVNER crosses AFEK GOCKEL  
AZHUSIN crosses ZAPPAS LOSHINSKY  
BAKCSI crosses GARAI FOMICHEV LINSS  
BARTOLOVIC crosses MACLEOD KOROLKOV  
BAZLOV crosses KOVACEVIC CAILLAUD  
BECKER crosses AFEK GRIN  
BRON crosses TRIBOWSKI SOROKA  
BRUCH crosses AHUES SOCHNEV  
BWEE crosses LOBUSOV JONES  
CAILLAUD crosses CHEYLAN LORINC BAZLOV  
CHEYLAN crosses CAILLAUD RICE  
CSAK crosses TRIBOWSKI SOROKA  
DEGENER crosses PETKOV PARRINELLO VISSERMAN  
DOBRESCU crosses GUROV DRAGOUN  
DRAGOUN crosses TROMMLER DOBRESCU  
FOMICHEV crosses BAKCSI JANEVSKI  
FRITZ crosses RUSINEK TROMMLER  
GARAI crosses BAKCSI JANEVSKI  
GOCKEL crosses KOROLKOV AVNER  
GRIN crosses BECKER WENDA  
GUROV crosses DOBRESCU KUZOVKOV  
HABEL crosses SALAI RUDENKO  
JANEVSKI crosses GARAI FOMICHEV LINSS SHANSHIN  
JONES crosses MACLEOD BWEE  
KELLER crosses RUSINEK TROMMLER  
KOROLKOV crosses BARTOLOVIC LOBUSOV GOCKEL

KOVACEVIC crosses LORINC BAZLOV  
KRALIN crosses PAROS MINSKI  
KUZOVKOV crosses ZAPPAS GUROV  
LINDGREN crosses LINSS SHANSHIN AGAPOV  
LINSS crosses LINDGREN BAKCSI JANEVSKI  
LOBUSOV crosses MACLEOD BWEE KOROLKOV  
LORINC crosses KOVACEVIC CAILLAUD  
LOSHINSKY crosses PACHL AZHUSIN PETKOV  
MACLEOD crosses BARTOLOVIC LOBUSOV JONES  
MINSKI crosses PACHMAN KRALIN RICE  
PACHL crosses ZAPPAS LOSHINSKY  
PACHMAN crosses PAROS MINSKI  
PAROS crosses PACHMAN KRALIN  
PARRINELLO crosses AGAPOV DEGENER PERVAKOV  
PERVAKOV crosses PETKOV PARRINELLO  
PETKOV crosses DEGENER LOSHINSKY PERVAKOV  
RICE crosses RUDENKO MINSKI CHEYLAN  
RUDENKO crosses RICE HABEL TRIBOWSKI  
RUSINEK crosses FRITZ KELLER  
SALAI crosses HABEL TRIBOWSKI  
SHANSHIN crosses SOCHNEV LINDGREN JANEVSKI  
SOCHNEV crosses SHANSHIN BRUCH  
SOROKA crosses BRON CSAK AHUES  
TRIBOWSKI crosses TURA SALAI BRON RUDENKO CSAK  
TROMMLER crosses FRITZ KELLER DRAGOUN  
TURA crosses TRIBOWSKI WENDA  
VISSERMAN crosses AGAPOV DEGENER  
WENDA crosses GRIN TURA  
ZAPPAS crosses KUZOVKOV PACHL AZHUSIN AHUES

Составить этот кроссворд помогла комбинация человеческого и искусственного «интеллекта». Была написана программа на Java. Она помогла выйти на уровень 48 слов. Затем стратегия была изменена. Автор интуитивно выделил кроссворды, в которых подозревал, что можно добавить больше слов. В другой версии программы в качестве входных использовались

выбранные кроссворды. В этой версии из кроссворда случайным образом удалялись 5-10 слов, а затем предпринимались попытки дополнить кроссворд снова случайно выбранными словами из списка. В результате получились кроссворды примерно из 55 слов. На третьем этапе были объединены случайное удаление слов и дальнейшее манипулирование с ручным подбором слов. Таким образом, автор смог найти кроссворд из 58 слов.

**Michael Lütt** -Thank you very much for the very interesting crossword task that I tried my hand at with the help of Java.

These were my first thoughts:

a) As an IBM mainframe application programmer for insurance companies, I also attended some Java courses many years ago, but never created professional Java programs, only used them for private purposes.

b) That every word must cross at least 2 other words is a very strong condition.

There will probably be a crossword with many words, but significantly fewer of them will meet the condition.

c) Due to the size of the crossword and the large number of given words, you will hardly be able to try out all combinations from scratch in order to determine the maximum number of words with brute force only.

With this in mind, I started the research.

After getting to about 48 words by brute force, the strategy was changed.

I determined with intuition the crosswords from which I suspected that more words could be added.

In another version of the program, the determined crosswords were used as input.

In this version 5-10 words were randomly removed from a crossword and then attempts were made to supplement the crossword with (again) randomly selected words from the list. This has resulted in crosswords with around 55 words.

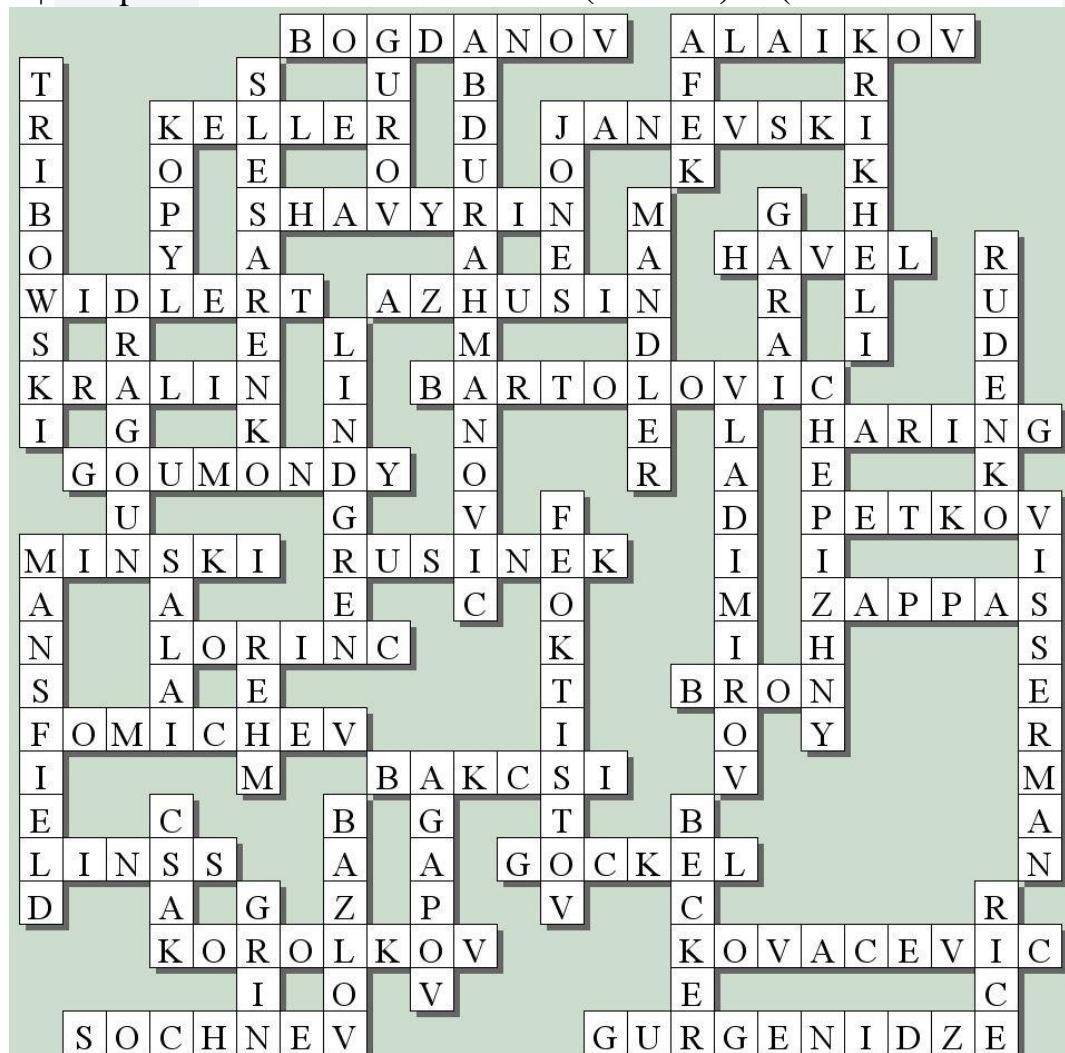
In a third step, the random removal of words and the further calculation with brute force were combined.

In this way I was able to find a solution that contains 58 words, each crossing at least 2 more words.

Overall, it was a combination of human and artificial "intelligence" in which, in addition to brute force, human intuition and random attempts were used.

My assumption b) has not been confirmed. Even without the "strong" condition, I could only fit 59 words into a crossword. E.g. in my solution you can add/cross the unused word REHM to the word BECKER.

2 место | 2nd place - **Adrian Storisteanu (Canada)** (26+26 =**52** слова/words):



Составлено с помощью программы Crossword Express. Compiled with Crossword Express.

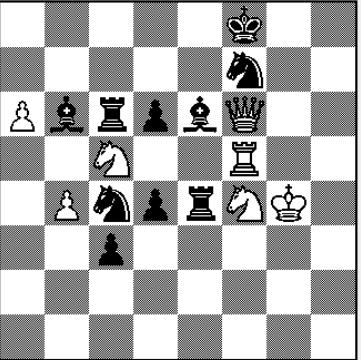
3 место | 3rd place - Ralf Krätschmer(Germany) (21+23=44 слова/words):

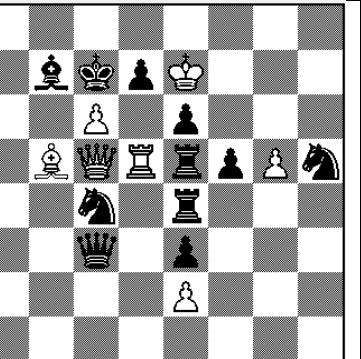
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H			Y		A				L				E					K	E	L	L	E
W			L		P	A	R	R	I	N	E	L	L	O					L	G		
A					P	E	N												A	E		
N	G				A	Z	H	U	S	I	N						P	U		N		
D	O			S	M	S									M	A	N	D	L	E	R	
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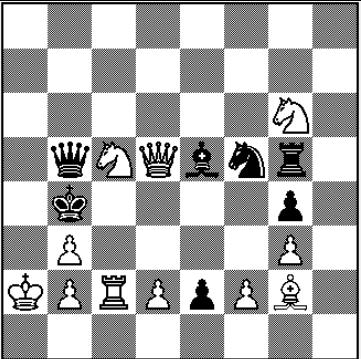
Вне конкурса | Out of competition Grigory Popov (22+23=45 слов/ words)

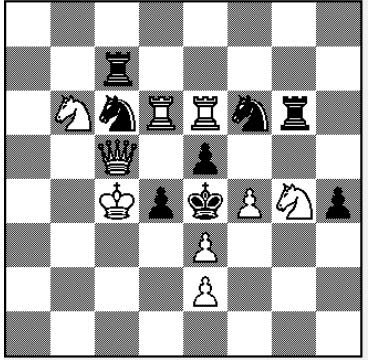
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M	I	N	S	K	I	H	N			C			J	R			S						
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O	C	K						N					L	O	R	I	N	C					
V	C	H	E	Y	L	A	N		G			M	O	U									
A	N			L	D					L	U			L	U	S							
C	S	E	L	I	V	A	N	O	V	S	H	A	N	S	H	I	N						
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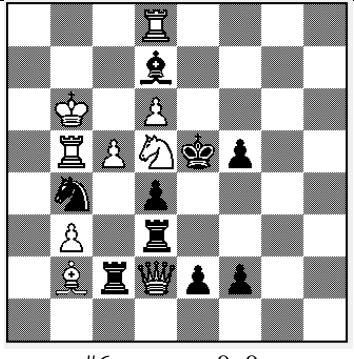
## Дополнительный конкурс | An additional competition

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<b>Ralf Krätschmer</b>	1. c6:d7+ Bb7-c6 2.Qc5-a7+ Bc6-b7 3.d7-d8Q# 1... Kc7-b8 2.d7-d8Q+ Bb7-c8 3.Qd8:c8#																																																			

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D	E	G	E	N	E	R																																														
<b>Ralf Krätschmer</b>	1.Sc5-d3+ Kb4-a5 2.b3-b4+ Ka5-a6 3.Qd5-a8+ Ka6-b6 4.Qa8-b7# . 2... Ka5-a4 3. b2-b3# . 2... Ka5-b6 3.Qd5-b7# 1... Qb5:d3 2.Qd5-c5#																																																			

<b>R</b> <b>K E L L E R</b> <b>H I</b> <b>M I N S K I</b> <b>S</b> <b>S</b>	Белые/White <b>M</b> =Kc4 <b>H</b> =Qc5 <b>LL</b> =Rd6 Re6 <b>KK</b> =Sb6 Sg4 <b>SSS</b> =Pe2 e3 f4	Чёрные/Black <b>N</b> =Ke4 <b>RR</b> =Rc7 Rg6 <b>EE</b> =Sc6 Sf6 <b>III</b> =Pd4 Pe5 Ph4	 #5      9+8
<b>Ralf Krätschmer</b>	1.Rd6:e6 Ke4-f5 2.Sg4-f2 Rg6-h6 3.Qc5:e5+ Kf5-g6 4.Rc6:c7 ~ 5.Qe5-g5/Re6:f6#		

<b>A</b> <b>Z</b> <b>P H</b> <b>A H U E S</b> <b>C S</b> <b>H I</b> <b>L I N S S</b>	Белые/White <b>P</b> =Kb6 <b>N</b> =Qd2 <b>AA</b> =Rb5 Rd8 <b>L</b> =Bb2 <b>U</b> =Sd5 <b>HHH</b> = Pb3 Pc5 Pd6	Чёрные/Black <b>E</b> =Ke5 <b>II</b> =Rc2 Rd3 <b>C</b> =Sb4 <b>Z</b> =Bd7 <b>SSSS</b> =Pd4 e2 f2 f5	 #6      9+9
<b>Ralf Krätschmer</b>	1. Qf4+ Ke6 2. Sc7+ Kf6 3. Qh4+ 3. ... Ke5 4. c6+ Rc5 5. Rxc5+ Sd5+ 6. Rxd5#; 3. ... Kf7 4. Qe7+ Kg6 5. Rg8+ Kh6 6. Qh4#; 2. ... Kf7 3. Qh6(4. Rf8#) Sd5+ 4. Ka7(5. Rf8#) Be8 5. Rxe8 ~ 6. Rf8#		

**Many thanks Michael Lütt, Adrian Storisteanu, Ralf Krätschmer!**

Это ностальгически напомнило период жизни, 30 летней давности, когда автор конкурса программировал кроссворды...

