

## The hardest sudokus (new thread)

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Re: The hardest sudokus (new thread)

By eleven » Thu Sep 23, 2010 4:20 pm

“ champagne wrote:  
sorry eleven, I am somehow lost.  
I reacted to the eliminations 3r5c2 and 3r8c5.

“ QUOTE

eleven

Posts: 2820  
Joined: 10 February 2008

Ah, i already said, that they cant be eliminated from the loop.

In a simple SK loop with exactly 2 digits for 2 cells (without any ORs ) you can directly eliminate a common pair (like 37 in column 2) from the rest of the unit. But i saw later, that here the reverse loop has ORs in other units and leaves more possibilities open for column 2 (or row 8).

However i can find all of Ron's eliminations manually as described (its just a bit boring). I doubt, that this would be so easy using your methods.

Re: The hardest sudokus (new thread)

By champagne » Thu Sep 23, 2010 4:28 pm

“ eleven wrote:  
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champagne

2017 Supporter  
Posts: 7269  
Joined: 02 August 2007  
Location: France Brittany



2 hidden pairs and a basic nice loop with not more than 2 AHS/AC

2r8c13 - 2r8c79 = 2r79c8 - 2r13c8 = AC:r1c7r3c9 (2r1c7r3c9 - 7r1c7r3c9) = 7r2c79 - 7r2c13 = 7r13c2 - 7r79c2 = AC:r7c1r9c3 (7r7c1r9c3 - 2r7c1r9c3)

as shown above, what simpler can we expect.

All the eliminations of the rank 0 logic shown by ronk are there.

I really don't catch your point

champagne

Re: The hardest sudokus (new thread)

By eleven » Thu Sep 23, 2010 5:27 pm

Since I know SK-loops, i can find them in 10 minutes.  
But why should i look for your loop over more than 20 cells including 2 AHS/AC ? Before i try to find something like that, i have spent 2 days looking for shorter chains.

“ QUOTE

eleven

Posts: 2820  
Joined: 10 February 2008

Re: The hardest sudokus (new thread)

By champagne » Thu Sep 23, 2010 5:49 pm

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Re: The hardest sudokus (new thread)

By ronk » Thu Sep 23, 2010 6:57 pm

Basically no comment on such a statement. Each player has it's own preferences.

Only one remark: that nice loop covers exactly (in the form using ALS) the cells of the potential SK loop (I stick to a strict definition, so, for me, we have no SK loop here)

This gives an additionnal chance to find it.

Generally speaking, in puzzles having such symmetries, Nice loops when they do exist are often similar to that one as far as I could see.

champagne

Re: The hardest sudokus (new thread)

By ronk » Thu Sep 23, 2010 6:57 pm

FWIW, this is the pencilmark grid at the time of the Explainer's ER=11.3 move, r3c9<2.

CODE: SELECT ALL  
1.....9.4...2.8...6...3.....4.3.7.....6.....2.5.8.....9...1...8.7...4.5.....6 # ED=11.3/11.3/3.8 gsf+game0119  

1	357	28	368	34578	4567	247	256	9
379	4	357	169	1359	2	567	8	157
28	579	6	189	4578	14579	3	125	47.2
689	169	158	4	129	3	2589	7	1258
3478	1359	34578	129	6	179	2458	1359	23458
3479	2	1347	5	179	8	469	169	134
247	367	9	2368	23458	456	1	235	78
236	8	123	7	1359	169	259	4	235
5	137	247	12389	2348	149	78	239	6

“ QUOTE

ronk

2012 Supporter  
Posts: 4764  
Joined: 02 November 2005  
Location: Southeastern USA

Re: The hardest sudokus (new thread)

By eleven » Thu Sep 23, 2010 7:56 pm

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eleven

Posts: 2820  
Joined: 10 February 2008

Re: The hardest sudokus (new thread)

By eleven » Thu Sep 23, 2010 7:56 pm

A last comment on this:  
Any manual player, who would not check this grid for an SK loop, is not advanced. As i said, such a check can be done in 10 minutes. Do you know, how long it takes, to check such a grid for finned fishes on paper ? I guess you dont, but i can tell you, longer, whatever preferences you have.  
So for humans SK eliminations have to be rated easier. That means, that in all these hardest puzzles with SK loop (including non simple ones) you should make the eliminations, before you even start your rating.

Its a pity, that there are no players anymore on the players forum.

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Re: The hardest sudokus (new thread)

By ronk » Thu Sep 23, 2010 8:10 pm

“ ronk wrote:  
FWIW, this is the pencilmark grid at the time of the Explainer's ER=11.3 move, r3c9<2.

After the second rank 0 logic (found manually) , I have the same PM plus 6r4c7 and 6r6c1.

My solver starts then using the last level of tagging, which reflects usually a significant step in difficulty, but I had some much lower SE ratings at that level.

No chance anyway to compare solutions at that level, processes are different.

champagne

Re: The hardest sudokus (new thread)

By champagne » Fri Sep 24, 2010 6:55 am

after ronk's analysis of SE hardest step in that puzzle, I went deeper in the rest of the path.  
next elimination for my solver is

6r4c7,6r6c1 (after several steps at the highest level of tagging),

giving the same PM.

At that moment, the solver makes a step with **10 cycles in the search of derived weak links.**

The maximum number of cycles in the search of derived weak links seems to be one of the best parameters to correlate SE rating with the results of my solver.

In fact, in the last pattern games where I participated, I sorted out puzzles to rate using 3 parameters

. level of tagging  
. maximum number of cycles in the search of derived weak links  
. print size.

it worked pretty well.

next steps don't eliminate 2r3c9. I find in sequence

3r5c8,3r8c9  
5r1c8  
7r2c9,7r7c1  
4r5c1  
7r5c3  
4r7c6

champagne

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3r5c8,3r8c9  
5r1c8  
7r2c9,7r7c1  
4r5c1  
7r5c3  
4r7c6

champagne

Re: The hardest sudokus (new thread)

By eleven » Thu Oct 28, 2010 2:06 pm

A first contribution to the hardest list:

CODE: SELECT ALL  
+---+  
. 9	. .	4 .
. 7	9 3	2 .
8 .	. 6	. 7
+---+		
1 .	8 .	. 6
. .	. 3	. 7
. .	. 5	6 .
+---+		
3 .	. .	5 .
. 4	. .	. .
. 2	. .	7 .
+---+  
eleven's 11.8

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eleven

Posts: 2820  
Joined: 10 February 2008

Re: The hardest sudokus (new thread)

By champagne » Thu Oct 28, 2010 3:44 pm

“ eleven wrote:  
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fine, I'll check my data base (so far I have 10 ER 11.8 in the data base but have not finished the rating)

It would be better to get ER EP ED could you edit your post

thanks

champagne

Re: The hardest sudokus (new thread)

By champagne » Thu Oct 28, 2010 4:43 pm, edited 1 time in total.

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