



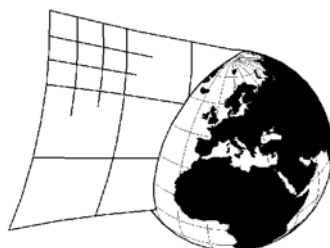
Booklet

SUDOKUCUP 9



HALAS
sudokualogika.cz

**Tournament
of HALAS
league**



SUDOKUCUP.COM

Partners:



MANTILA
R E P R O

Spedrapid 

Classic Sudoku

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | | 4 | 8 | | 2 | | | |
| 3 | | 5 | | | | 6 | | 8 |
| 7 | | 3 | | 5 | | 4 | | |
| 2 | | 4 | | | | 1 | | 3 |
| | | | | | | | | |
| 6 | | 8 | | | | 7 | | 4 |
| | 2 | | 7 | 9 | | | 1 | |
| 1 | | 9 | | | | 5 | | 7 |
| | 8 | | 6 | 1 | | | 3 | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 9 | 1 | 6 | 4 | 7 | 8 | 3 | 2 | 5 |
| 3 | 4 | 5 | 9 | 1 | 2 | 6 | 7 | 8 |
| 8 | 7 | 2 | 3 | 6 | 5 | 9 | 4 | 1 |
| 2 | 5 | 4 | 8 | 9 | 7 | 1 | 6 | 3 |
| 7 | 3 | 1 | 5 | 4 | 6 | 8 | 9 | 2 |
| 6 | 9 | 8 | 1 | 2 | 3 | 7 | 5 | 4 |
| 5 | 2 | 3 | 7 | 8 | 9 | 4 | 1 | 6 |
| 1 | 6 | 9 | 2 | 3 | 4 | 5 | 8 | 7 |
| 4 | 8 | 7 | 6 | 5 | 1 | 2 | 3 | 9 |

Examples:

Daily league on-line (Archiv): 7. 5. 2012 - 11. 1. 2013
<http://sudokucup.com/node/2127>

Classic Sudoku 6x6

Write a single number from 1 to 6 in each cell so that each number appears exactly once in every row, column, and bolded 2x3 box.

| | | | | | |
|---|---|---|---|---|---|
| 4 | | | | | 6 |
| | 6 | | | 5 | |
| | | | 4 | | |
| | | 3 | | | |
| | 2 | | | 6 | |
| 1 | | | | | 3 |



| | | | | | |
|---|---|---|---|---|---|
| 4 | 3 | 5 | 1 | 2 | 6 |
| 2 | 6 | 1 | 3 | 5 | 4 |
| 6 | 1 | 2 | 4 | 3 | 5 |
| 5 | 4 | 3 | 6 | 1 | 2 |
| 3 | 2 | 4 | 5 | 6 | 1 |
| 1 | 5 | 6 | 2 | 4 | 3 |

Examples:

MAČR Sudoku - 17. 11. 2012 Brno
http://sudokualogika.cz/sites/default/files/1_BLOK_su_MACR_2012.pdf

Classic Sudoku 12x12

Write a single number from 1 to 12 in each cell so that each number appears exactly once in every row, column, and bolded 3x4 box.

| | | | | | | | | | | | |
|----|---|----|----|----|---|----|----|---|----|---|----|
| | | | 12 | 5 | | | | 4 | 6 | | |
| 1 | | | | | 6 | 8 | | | | | 12 |
| | 7 | 10 | | | | | 12 | 2 | | 5 | |
| | | | 4 | | 5 | 7 | | 9 | | | |
| | | 7 | 8 | | | | 10 | | | 3 | |
| 9 | | | | 1 | 4 | | | | | 8 | 6 |
| | 3 | 1 | | 7 | | | | | 12 | | 10 |
| 7 | | | 6 | | | 11 | | 3 | | | 2 |
| | | 11 | | 4 | 1 | | | 8 | | | |
| 8 | 4 | | | 12 | 6 | | 10 | | | | 7 |
| | | 6 | 1 | | | | | 5 | 2 | | |
| 12 | | | | | 3 | 2 | | 8 | | | |



| | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 3 | 8 | 9 | 12 | 5 | 7 | 10 | 2 | 4 | 6 | 11 | 1 |
| 1 | 2 | 4 | 5 | 3 | 6 | 8 | 11 | 7 | 9 | 10 | 12 |
| 6 | 7 | 10 | 11 | 1 | 4 | 9 | 12 | 2 | 3 | 5 | 8 |
| 2 | 1 | 3 | 4 | 6 | 5 | 7 | 8 | 9 | 10 | 12 | 11 |
| 5 | 6 | 7 | 8 | 9 | 11 | 12 | 10 | 1 | 2 | 3 | 4 |
| 9 | 11 | 12 | 10 | 2 | 1 | 3 | 4 | 5 | 7 | 8 | 6 |
| 4 | 3 | 1 | 2 | 7 | 8 | 5 | 6 | 11 | 12 | 9 | 10 |
| 7 | 5 | 8 | 6 | 10 | 12 | 11 | 9 | 3 | 1 | 4 | 2 |
| 10 | 12 | 11 | 9 | 4 | 2 | 1 | 3 | 6 | 8 | 7 | 5 |
| 8 | 4 | 2 | 3 | 12 | 9 | 6 | 5 | 10 | 11 | 1 | 7 |
| 11 | 9 | 6 | 1 | 8 | 10 | 4 | 7 | 12 | 5 | 2 | 3 |
| 12 | 10 | 5 | 7 | 11 | 3 | 2 | 1 | 8 | 4 | 6 | 9 |

Example:

MAČR Sudoku - 17. 11. 2012 Brno
http://sudokualogika.cz/sites/default/files/1_BLOK_su_MACR_2012.pdf

Fortress Sudoku

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns, and bolded 3x3 box. There is a fortress on the playground formed by coloured cells. The coloured cells must be greater than the horizontally or vertically adjacent white cells.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 7 | | | | 4 | | | |
| 3 | | | | | | 5 | 7 | |
| | | 1 | | | | | 3 | |
| | | | 8 | | | | | |
| | | | | | | | | 6 |
| | 1 | | | 4 | | | 6 | |
| 7 | 4 | | | | | 8 | | |
| | | 5 | | | | | | |



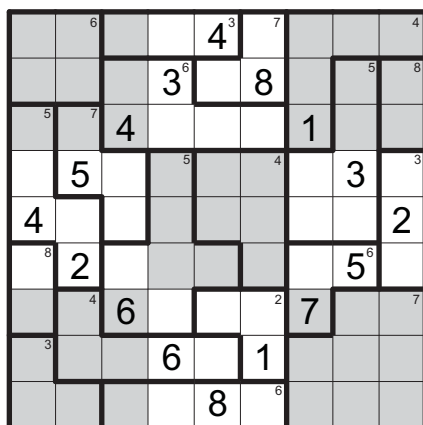
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6 | 7 | 2 | 3 | 8 | 5 | 4 | 9 | 1 |
| 3 | 8 | 4 | 6 | 9 | 1 | 2 | 5 | 7 |
| 5 | 9 | 1 | 4 | 2 | 7 | 6 | 3 | 8 |
| 1 | 6 | 9 | 8 | 5 | 2 | 3 | 7 | 4 |
| 2 | 3 | 7 | 1 | 6 | 4 | 5 | 8 | 9 |
| 4 | 5 | 8 | 9 | 7 | 3 | 1 | 2 | 6 |
| 9 | 1 | 3 | 2 | 4 | 8 | 7 | 6 | 5 |
| 7 | 4 | 6 | 5 | 3 | 9 | 8 | 1 | 2 |
| 8 | 2 | 5 | 7 | 1 | 6 | 9 | 4 | 3 |

Examples:

Daily league on-line (Archiv): 5. 12. 2012; 21. 12. 2012;
<http://sudokucup.com/node/2127>

Gappy Consecutive Sudoku

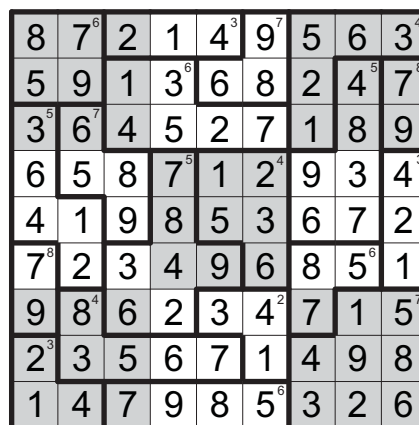
Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns, 3x3 box. Every outlined area contains the set of consecutive numbers with one in-between number missing. The missing number is indicated for every area.



Examples:

Daily league on-line (Archiv): 6. 6. 2012; 29. 12. 2012
<http://sudokucup.com/node/2127>

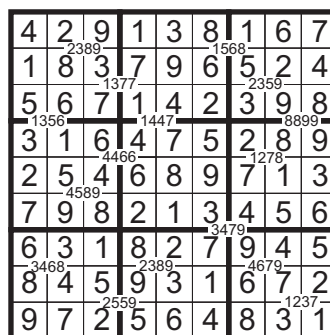
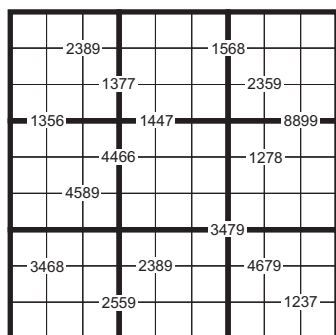
Sudokucup 8 - Vladimir Portugalov
<http://sudokucup.com/node/2140>



Author: Vladimir Portugalov - Sudokucup 8

Quadruple

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. Each set of four small digits in the intersection of two lines indicate the digits that are in the four adjacent cells.

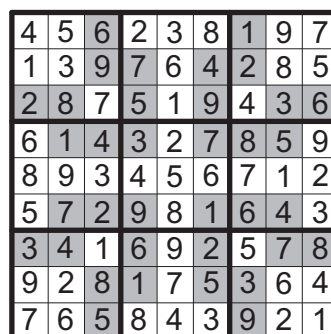
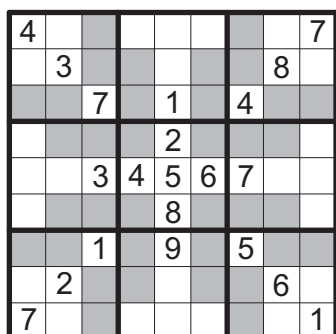


Examples:

Daily league on-line (Archiv): 29. 8. 2012; 21. 9. 2012;
2. 11. 2012; 28. 12. 2012
<http://sudokucup.com/node/2127>

Sudoku extraregions

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. The grey filled cells form additional regions that also contain 1-9 exactly once.



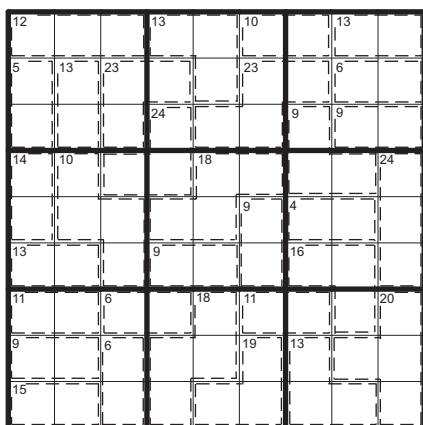
Examples:

Daily league on-line (Archiv): 1. 7. 2012; 5. 7. 2012;
20. 8. 2012; 30. 9. 2012; 27. 10. 2012; 1. 12. 2012
<http://sudokucup.com/node/2127>

Author: Fred Stalder - MAČR Brno 17. 11. 2012

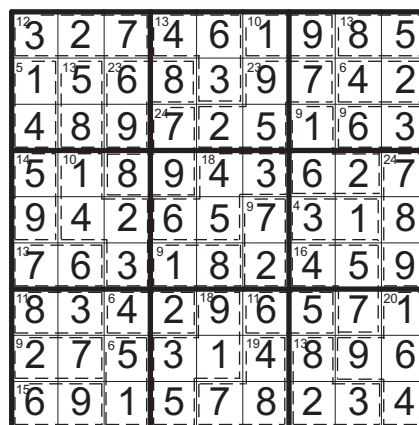
Killer Sudoku

Write a single number from 1 to 9 in each cell so that each number appears exactly once in every row, column, and bolded 3x3 box. The sum of the cells must equal the total given for the cage in the upper right of the cage. Each digit in the cage must be unique.



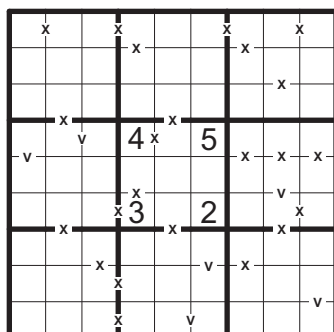
Examples:

Daily league on-line (Archiv): 26. 12. 2012; 28. 11. 2012;
4. 10. 2012; 3. 9. 2012;
<http://sudokucup.com/node/2127>



XV Sudoku

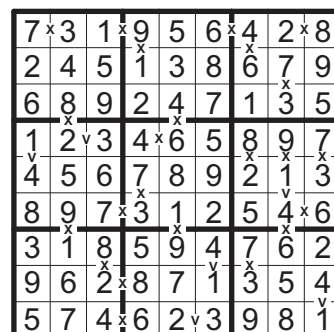
Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns, 3x3 box. All adjacent cells with two digits summing to 5 are marked by V, while those summing to 10 are marked by X. The cells edges which do not contain a V or an X cannot have digits summing to 5 or 10.



Examples:

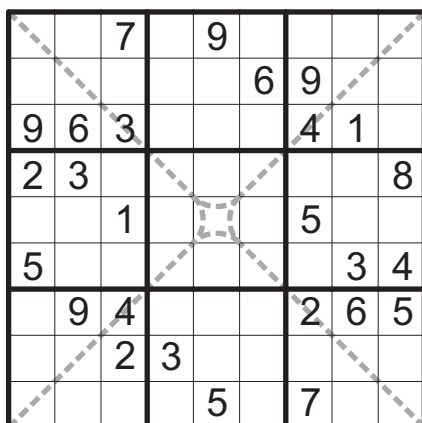
Daily league on-line: 16. 1. 2013
<http://sudokucup.com/node/1901>

Daily league on-line (Archiv): 17. 11. 2012; 12. 10. 2012;
<http://sudokucup.com/node/2127>



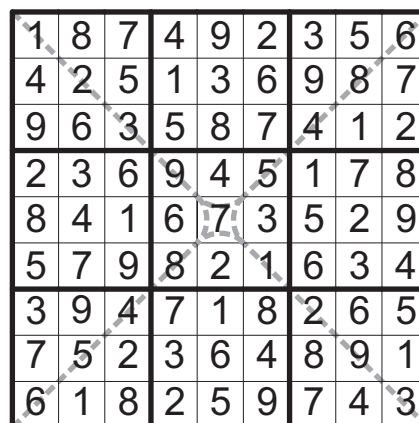
Bent Diagonal

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. There are four bent diagonals where each number appears exactly once.



Examples:

Sudokucup 7
<http://sudokucup.com/node/1488>



Author: Serkan Yürekli - AMČR Brno 17. 11. 2011

Antiknight

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. The same numbers are not chess-knight move connected.

| | | | | | |
|---|---|--|---|---|---|
| | 8 | | | 5 | 2 |
| 5 | | | 2 | | |
| | 7 | | | 6 | |
| 6 | 1 | | | 8 | |
| 3 | | | | | 9 |
| | 2 | | | 6 | 3 |
| | 6 | | | 8 | |
| | | | 3 | | 6 |
| 1 | 4 | | | | 2 |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4 | 8 | 3 | 1 | 7 | 6 | 5 | 9 | 2 |
| 5 | 9 | 6 | 3 | 2 | 8 | 4 | 7 | 1 |
| 2 | 1 | 7 | 4 | 5 | 9 | 3 | 6 | 8 |
| 6 | 7 | 1 | 5 | 9 | 3 | 2 | 8 | 4 |
| 3 | 4 | 5 | 6 | 8 | 2 | 7 | 1 | 9 |
| 8 | 2 | 9 | 7 | 1 | 4 | 6 | 5 | 3 |
| 7 | 6 | 2 | 9 | 4 | 1 | 8 | 3 | 5 |
| 9 | 5 | 8 | 2 | 3 | 7 | 1 | 4 | 6 |
| 1 | 3 | 4 | 8 | 6 | 5 | 9 | 2 | 7 |

Examples:

Daily league on-line (Archiv): 9. 1. 2013; 17. 12. 2012;
16. 11. 2012; 11. 10. 2012;
<http://sudokucup.com/node/2127>

Twin Detector Sudoku

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns, 3x3 box. Wherever the number in the cell equals to a total of any amount of the closest numbers in any direction - there is an arrow pointing to that direction.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 6 | 5 | | | | |
| | | | 8 | | | | | |
| | | 9 | | | 2 | | | |
| 2 | | | | | | | 9 | |
| | 5 | | | 9 | | | 2 | |
| 7 | | | | | | | | 6 |
| | | 1 | | | | 6 | | |
| | | | | 2 | | | | |
| | | | 8 | | 1 | | | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | 7 | 2 | 6 | 4 | 5 | 8 | 9 | 1 |
| 1 | 4 | 5 | 2 | 8 | 9 | 3 | 6 | 7 |
| 6 | 8 | 9 | 1 | 3 | 7 | 2 | 4 | 5 |
| 2 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | 5 | 6 | 7 | 9 | 8 | 1 | 2 | 3 |
| 7 | 9 | 8 | 3 | 1 | 2 | 4 | 5 | 6 |
| 5 | 2 | 1 | 9 | 7 | 4 | 6 | 3 | 8 |
| 8 | 6 | 7 | 5 | 2 | 3 | 9 | 1 | 4 |
| 9 | 3 | 4 | 8 | 6 | 1 | 5 | 7 | 2 |

Examples:

Daily league on-line (Archiv): 21. 11. 2012; 27. 9. 2012;
30. 8. 2012;
<http://sudokucup.com/node/2127>

Sudokucup 8 - Vladimir Portugalov
<http://sudokucup.com/node/2140>

Notwo Sudoku

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. Two vertically or horizontally adjacent cells cannot contain digits whose difference is 2.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|--|
| | | | 9 | 1 | 5 | 6 | | |
| | 3 | | | | | | 9 | |
| 5 | | | | | | | 4 | |
| | | | | | | 7 | | |
| | | | | 8 | | | | |
| | | | 4 | | | | | |
| | | 6 | | | | | | |
| | 4 | | | | | | | |
| | 9 | 3 | 2 | 1 | 4 | 7 | | |



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4 | 7 | 8 | 9 | 1 | 5 | 6 | 3 | 2 |
| 1 | 6 | 3 | 4 | 7 | 2 | 5 | 9 | 8 |
| 9 | 5 | 2 | 8 | 3 | 6 | 1 | 4 | 7 |
| 8 | 9 | 5 | 2 | 6 | 3 | 7 | 1 | 4 |
| 7 | 4 | 1 | 5 | 9 | 8 | 2 | 6 | 3 |
| 2 | 3 | 6 | 1 | 4 | 7 | 8 | 5 | 9 |
| 3 | 2 | 7 | 6 | 5 | 4 | 9 | 8 | 1 |
| 6 | 1 | 4 | 7 | 8 | 9 | 3 | 2 | 5 |
| 5 | 8 | 9 | 3 | 2 | 1 | 4 | 7 | 6 |

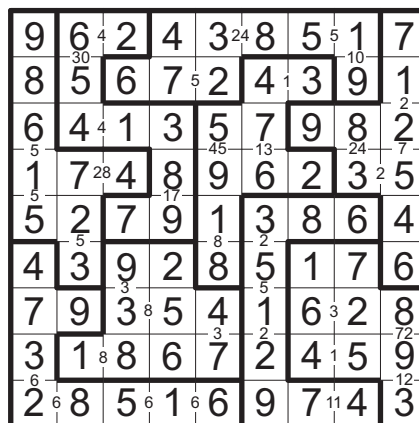
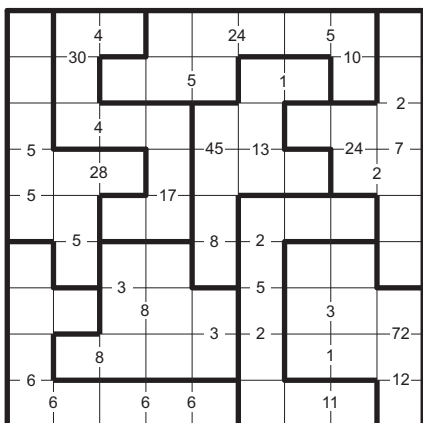
Example:

Daily league on-line: 17. 1. 2013
<http://sudokucup.com/node/1901>

Author: Fred Stalder - Praha 15. 12. 2012
<http://sudokuvariante.blogspot.cz/2013/01/notwo-sudoku-n1.html>

Mathdoku

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and the irregularly shaped regions. For more in each of nine irregularly shaped regions there are subsidiary numbers between two cells. These numbers are the results of binary operations (addition, subtraction, multiplication, or division) between the two cells. In each region there must be used all the four binary operations. Example: between the cells there is number 48 multiplication is only acceptable operation, that's why the candidates of the two cells are digits 6 and 8.



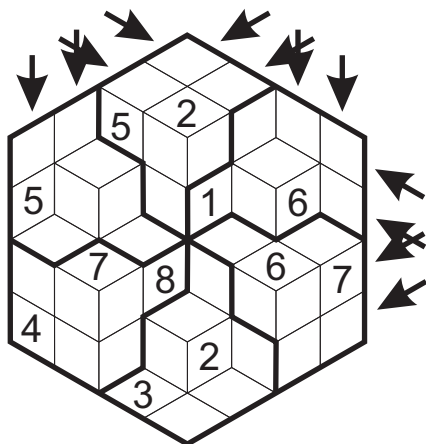
Examples:

Daily league on-line (Archiv):
Not irregularly shaped (similar type)
3. 7. 2012; 26. 7. 2012; 21. 10. 2012; 19. 12. 2012;
<http://sudokucup.com/node/2127>

Author: Seungjae Kwak - MAČR Brno 17. 11. 2012

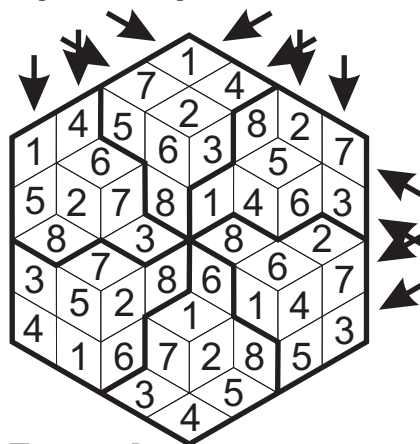
Cubic

Fill each cell of the grid with digits 1 to 8 to appear only once in every of 12 lines and in every of 6 shaped regions.



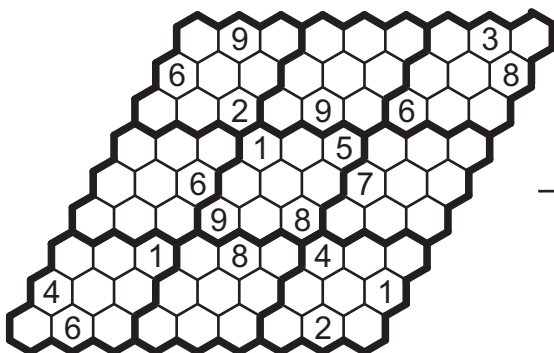
Example:

GP Most on-line:
<http://sudokucup.com/node/480>



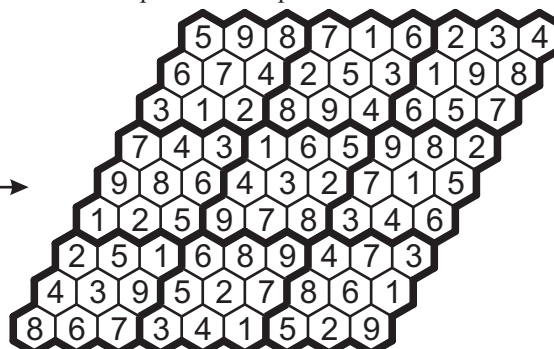
Isosudoku

Write a single digit from 1 to 9 into each cell so that no digit can be repeated in marked areas and rows of three directions.



Example:

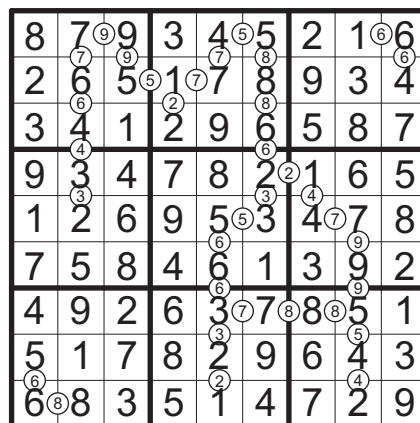
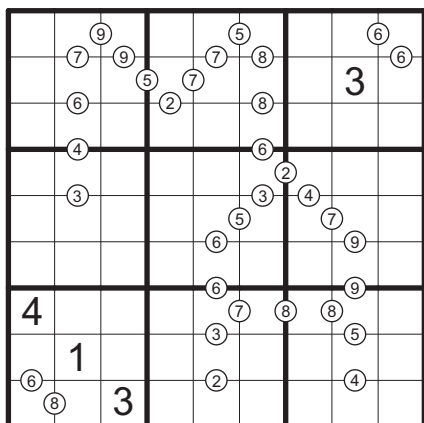
Sudokucup 3 - Thomas Snyder
<http://sudokucup.com/node/517>
HALAS league on-line 26. - 29. 10. 2012
<http://sudokucup.com/node/2930>



Author: Jan Novotný - HALAS league on-line 26. - 29. 10. 2012

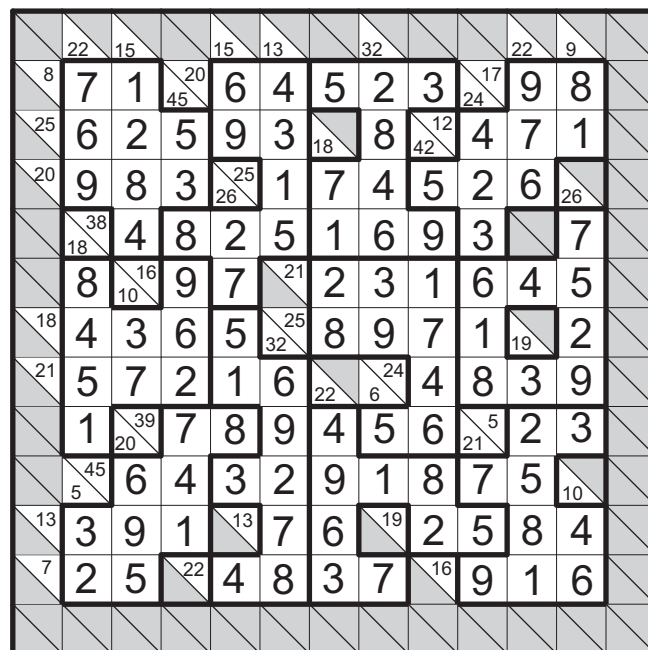
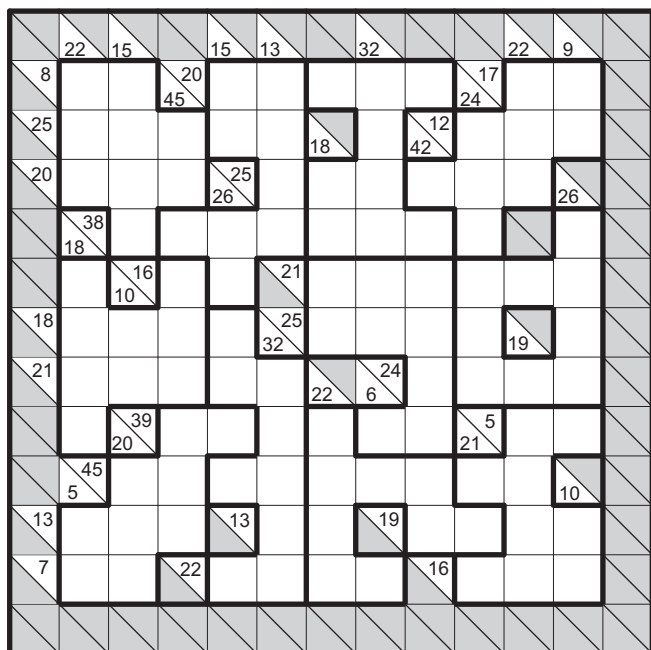
The Greater

Write a single number from 1 to 9 in each cell such that each number appears exactly once in every row, column, and bolded 3x3 box. The small number between two cells stands for the greater of the two adjacent digits.



Sudokuro

Fill the grid with digits 1 to 9. The digits can't be repeated in rows, columns, or 11 marked shapes. The numbers outside and inside the grid set the sums in horizontal and vertical directions.



Surprise

Like in every Sudokucup there must be a Surprise puzzle.

Every day you can practise one of the variants that will appear in the SC 9. You can try that online within daily variants league of Sudokucup.

More you can find at Variants online: Daily League -> Sudoku variants:
<http://sudokucup.com/node/1901>

We're looking forward to your visit and attendance in SC9!

On behalf of organizers
Karel Tesař