

Sudoku X

Place the numbers 1-6 once in every row, column, diagonal AND 3x2 block.

[The diagonals form an X and are highlighted. The 3x2 blocks are clearly marked]

a)

1					
	4				
	1				
		2		3	
				6	

Solution

1	2	5	6	4	3
3	4	6	2	1	5
5	1	3	4	2	6
4	6	2	5	3	1
2	5	1	3	6	4
6	3	4	1	5	2

Sudoku X

Place the numbers 1-6 once in every row, column, diagonal AND 3x2 block.

[The diagonals form an X and are highlighted. The 3x2 blocks are clearly marked]

b)

	5				
				2	6
3	6				
		4		6	

c)

		3			
	1				
			1		2
1		6			
				4	
			2		

d)

	4	3			
	1				5
					1
2					
1				3	
			1	5	

e)

			5		
1			4		
		3			
					6

Hitori

Black out numbers in the grid below so that:

- There is one, and only one occurrence of a number in each row and each column;
- All the numbers that remain should be connected and accessible through up and down, but not diagonal, moves;
- Black squares cannot touch vertically or horizontally

5	4	3	7	6	1	8	8
1	6	5	4	8	7	4	2
2	2	2	1	6	3	6	7
6	1	8	5	2	7	1	1
5	7	3	4	3	8	5	6
8	3	6	2	5	2	7	4
3	8	1	6	3	4	6	5
4	5	4	8	1	7	2	3

Solution

5	4	3	7	6	1	8	8
1	6	5	4	8	7	4	2
2	2	2	1	6	3	6	7
6	1	8	5	2	7	1	1
5	7	3	4	3	8	5	6
8	3	6	2	5	2	7	4
3	8	1	6	3	4	6	5
4	5	4	8	1	7	2	3

Hitori

Black out numbers in the grid below so that:

- d) There is one, and only one occurrence of a number in each row and each column;
- e) All the numbers that remain should be connected and accessible through up and down, but not diagonal, moves;
- f) Black squares cannot touch vertically or horizontally

a)

3	6	5	6	8	4	7	7
1	2	2	4	5	5	7	6
6	2	1	6	5	1	4	1
7	4	3	2	5	8	3	5
2	3	8	4	4	1	5	6
6	1	7	7	7	2	6	8
8	5	4	3	7	6	2	3
4	3	6	5	6	7	8	2

b)

8	6	5	8	3	2	4	4
5	1	8	6	2	7	5	4
2	3	4	7	7	3	5	1
6	4	8	2	7	1	5	5
4	6	2	5	1	3	8	3
3	5	7	1	8	4	7	2
7	3	1	3	8	3	6	7
6	3	1	4	8	5	2	8

c)

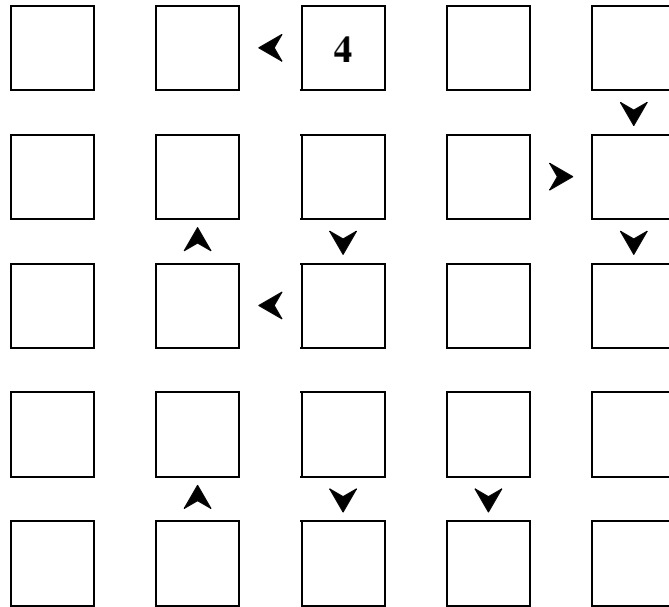
8	3	7	2	5	4	4	4
8	4	7	3	5	6	2	1
8	5	7	1	4	6	3	5
7	2	2	2	6	3	8	5
3	1	8	4	3	2	5	5
1	6	4	5	3	7	8	8
4	6	6	8	3	5	7	2
2	6	3	7	8	1	1	1

d)

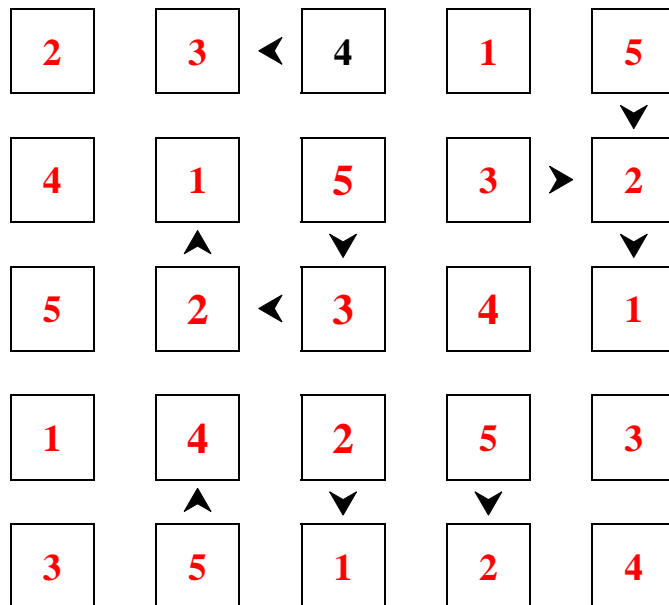
7	4	5	1	8	2	6	2
1	6	4	2	3	3	3	8
8	1	3	6	5	4	7	2
2	5	1	6	2	1	1	3
7	2	6	8	1	8	5	4
3	8	4	5	3	7	3	1
5	3	2	1	6	4	8	7
6	8	7	3	7	4	1	2

Hutosiki

Place the numbers 1 – 5 so that a) no number is repeated in any row or column and b) numbers in cells linked by \blacktriangleleft “less than” or \blacktriangleright “greater than” must obey these signs



Solution



Hutosiki

Place the numbers 1 – 5 so that a) no number is repeated in any row or column and b) numbers in cells linked by ◀ “less than” or ▶ “greater than” must obey these signs

◻	◻	▶	◻	◻	◻
▲			▼		
◻	◻	◻	◻	◻	◻
		▼	▲		
2	◻	◻	◻	◻	4
			◻	◻	
4	◻	◻	◻	◻	2
		▲			
◻	◻	◻	◻	◻	◻

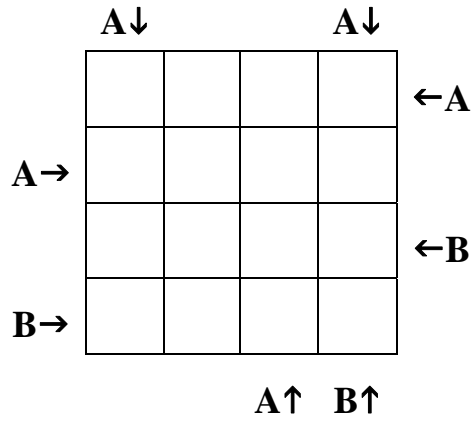
◻	◻	▶	◻	◻	◻
	▲				▲
◻	◻	◻	◻	◻	◻
		◻	◻		
◻	◻	◻	◻	◻	◻
	▼	▼			▼
◻	◻	▶	◻	◻	◻
◻	◻	2	◻	◻	◻

◻	◻	◻	◻	▶	◻
▼		▲			
◻	◻	◻	◻	◻	◻
	▲	▼			
2	◻	◻	◻	◻	◻
	▼				
◻	◻	◻	◻	◻	◻
▼					
◻	◻	◻	◻	◻	◻
	◻	◻	◻	◻	◻
◻	◻	◻	◻	◻	◻
	◻	◻	◻	◻	◻

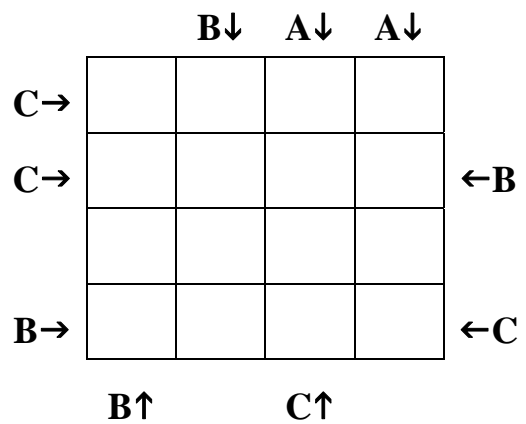
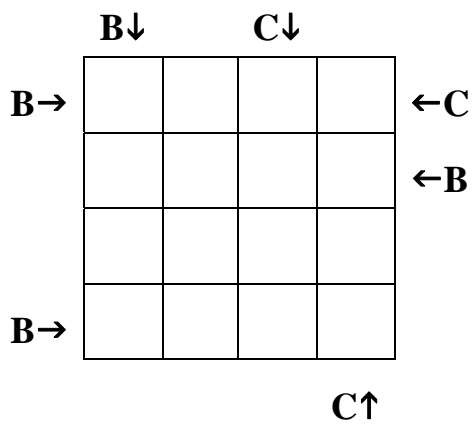
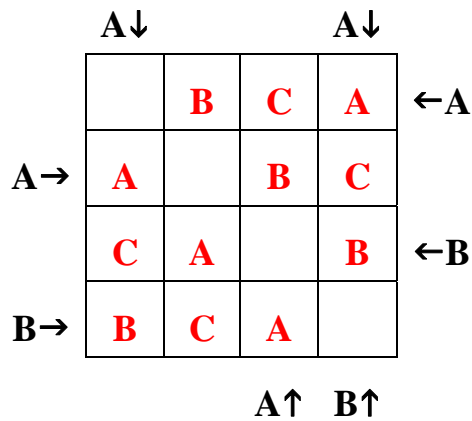
◻	◻	▶	◻	◻	◻
					▼
◻	◻	◻	◻	◻	◻
		◻	◻		
◻	◻	◻	◻	◻	◻
		◻	◻		
◻	◻	◻	◻	◻	◻
	▲	▶			▲
◻	◻	◻	◻	◻	◻
◻	◻	◻	◻	◻	◻

abc

Each column and each row contains the letters A, B and C and one empty square. The letter outside the grid shows the first letter in the column or row in the direction indicated by the arrow. Fill in the grid.



Solution



Sudoku

Place the numbers 1-9 once in every row, column and 3x3 block.

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

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

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

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

Kakuro

Fill in the blank squares using the digits 1-9, without repeating any digit in any line of blank squares. Each line of blank squares should add up to the white total in the shaded area at the top or left of the line. [The white numbers at the bottom of a shaded box give a downward total; the white numbers at the top of a shaded box give a horizontal total]

	4	3	10		16	10	
7				10			3
6				13			
		3			4		
	16						
3			12			4	3
7				7			
	5			6			

Solution

	4	3	10		16	10	
7	1	2	4	10	9	1	3
6	3	1	2	13	7	4	2
		3	1	2	4	3	1
	16						
3	1	2	12	7	5	4	3
7	2	4	1	7	4	1	2
	5	3	2	6	2	3	1

Kakuro

Fill in the blank squares using the digits 1-9, without repeating any digit in any line of blank squares. Each line of blank squares should add up to the white total in the shaded area at the top or left of the line. [The white numbers at the bottom of a shaded box give a downward total; the white numbers at the top of a shaded box give a horizontal total]

				19	3
			3		
		10			
	16				
4					
19					
3					

	13	14	16		
23				30	11
21					
4			9		
			10		
16					
		21			

		41	3	6		28	4
	6				3		
	7				10		
	3				6		
11			13				3
			3				
10				6			
				7			
	11				6		
	4				12		
11			14				
6			6				