

數和 Kakuro

Kakuro is like a crossword puzzle with numbers. The objective is to fill appropriate numbers in the cells such that the clues in the black cells tells the sum of the numbers in the row/column next to that clue.

Rule:

- 1) Each cell can contain numbers from 1 through 9.
- 2) The total sum of all numbers in each row block equals the sum number shown on its left and the total sum of all numbers in each column block equals the sum number shown above.
- 3) The numbers in consecutive white cells must be unique.

Example

			14	16	
		16			
		17			8
	29				
5					
14				1	

Stage 1:

Find all rows/columns contain one number. The number in the cell is equal to the clue.

			14	16	
		16			8
	29				
14	5			1	1

Stage 2:

Fill in the cells that can be determined.

			14	16	
		16			8
	29	8			7
14	5	9		1	1

Stage 3:

Since numbers cannot be used repeatedly in each row/column. We should find some sums which have unique solution, like $16 = 7 + 9$, $17 = 8 + 9$, $29 = 5 + 7 + 8 + 9 \dots$, and determine the positions of the numbers.

			14	16	
		16	9	7	8
	29	8	5	9	7
14	5	9		1	1