

<codeclash>2019

Code Clash Official Problem #2 'Sudoku'

Problem statement

The puzzle game Sudoku tasks the player with filling in each of the cells in a grid with a digit from 1 to 9 so that every row, column, and 3x3 square contains every digit exactly once. Sudoku is played on a 9x9 grid composed of nine smaller 3x3 sections. The same digit may not be repeated within these sections, nor may it be repeated within the same row or column. Your program must judge whether a provided Sudoku solution is valid or not.

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

A completed sudoku grid will be provided as input, with nine rows and nine columns that are populated with numerical digits. Your program will output "CORRECT" if the provided grid is validated as an accurate sudoku solution, or "INCORRECT" if the grid is invalid for any reason.

Sample test case

Sample input and output for this problem:

Input	Output
431679528 967258341 582143967 659817234 328564179 714932856 873421695 145396782 296785413	CORRECT