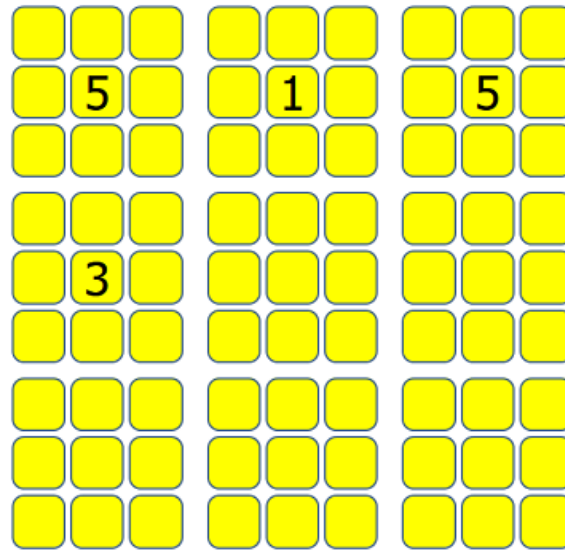


Sudoku Input

Sudoku is a logic-based number-placement puzzle. The objective is to fill a 9×9 grid with digits so that each column, each row, and each of the nine 3×3 subgrids that compose the grid contains all of the digits from 1 to 9.

In this problem, you will be given a set of input data for a partially filled sudoku puzzle. Your task is to determine if it is a valid input. Print "OK" if input is valid, otherwise print "WRONG INPUT".

Note that an input is valid if no rows, columns or subgrids contain duplicates.



For example, the above input is invalid because 5 is repeated in the second row.

Function Description

Complete the function *validate* in the editor below. The function must return one of the two strings, "OK" or "WRONG INPUT".

validate has two parameters -

data: a $n * 3$ integer array. Each row denotes a cell value in form of row, column, value.

Input Format

The first line contains the number of input data **N**. Then **N** lines follows.

Each line has 3 integer values row,column,value - **r,c,v**.

Constraints

$$1 \leq N \leq 81$$

$$1 \leq r, c, v \leq 9$$

Output Format

Print **OK** if a given input is a valid suduko puzzle. Print **WRONG INPUT** if not. There is a code stub to handle I/O if you choose to use it.

Sample Input 0

```
4
2 2 5
2 5 1
5 2 3
2 8 5
```

Sample Output 0

```
WRONG INPUT
```

Explanation 0

This is the input from picture where row number 2 has same value of 5 in different columns.

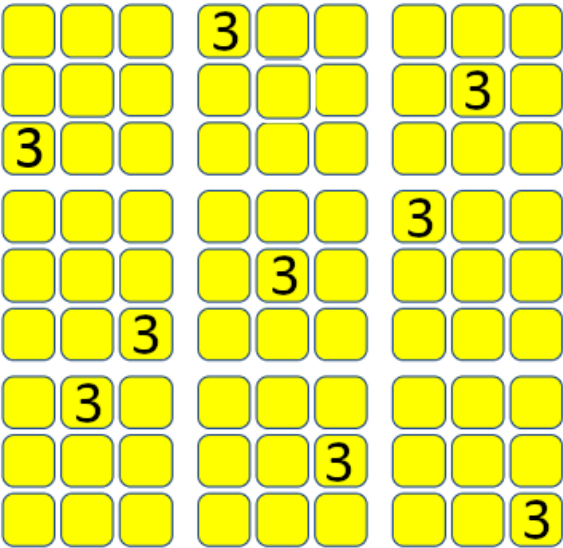
Sample Input 1

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

Sample Output 1

```
OK
```

Explanation 1



There are no clashes in the puzzle.