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Check Sudoku

 locked

Problem

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Your old friend Osvald is a Sudoku aficionado.

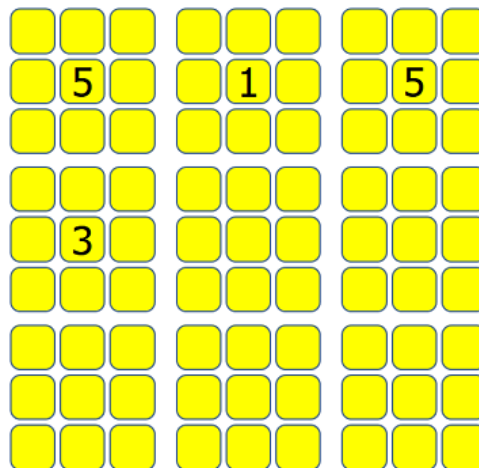
Sudoku is a logic-based number-placement puzzle whose objective is to fill a 9×9 grid with digits so that each column, each row, and each of the nine 3×3 subgrids that compose the grid contains all of the digits from 1 to 9. No rows, columns, or subgrids might contain duplicates.

Osvald found an old magazine containing a lot of Sudoku puzzles that someone else started solving. He needs your help to figure out which can be continued.

In other words, you will be given a set of input data for a partially filled sudoku puzzle and your task is to determine if it is a valid input or not.

Print "OK" if input is valid, otherwise print "WRONG INPUT".

Will you help him?



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

Input Format

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

Each line has 3 space-separated integer values:

- 1-based row coordinate r
- 1-based column coordinate c
- value 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 sudoko puzzle. Print WRONG INPUT if not.

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.

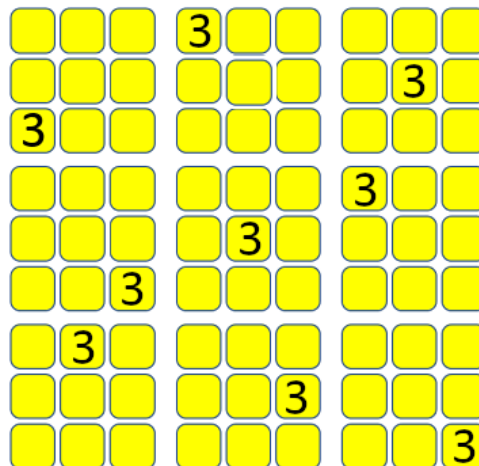
Sample Input 1

```
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.

[f](#) [t](#) [in](#)

Submissions: 11

Max Score: 25

Difficulty: Easy

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C++



```
1▼ #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9▼ int main() {
10▼     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

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