

TC1018: Estructura de Datos C++
PRO02 – Sudoku Check (Tutoring 24/7)

Ing. Luis Humberto González G
Forma de Trabajo: Individual.

Sudoku is a game in a 9x9 matrix with numbers from 1 to 9, where should be just one of these numbers in:

- Each row
- Each column
- Each 3x3 matrix

An example of a complete game is:

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

Given a group of numbers, print **YES** if is a correct SUDOKU game, or **NO** if other case.

Input

Come 9 rows with 9 numbers of each SUDOKU cell

Output

Print **YES** if is a correct SUDOKU game, or **NO** if other case.

Sample Input

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

Sample Output

YES