Bloomberg
CODECON

Memory Limit: 1024 MB
Time Limit: 5 s

Sudoku (150 points)

Introduction

Most of you are probably familiar with **Sudoku** puzzles. A completed Sudoku puzzle is simply a **9x9 grid** where every box has the number 1 – 9 in it, and where each of the numbers 1 through 9 appear exactly one time in each row, each column, and each of the 9 boxes created by adding a dividing line after every 3rd row and every 3rd column.

```
632781945
487596213
519243876
864352791
751968324
293174658
945637112
176825439
328419567
```

Example

You will be given a **9 x 9 completed** Sudoku puzzle with **exactly one** error. You need to determine **which cell is wrong** and what number the **correct value** should be. All cells in the grid, including the error cell, will be a number between 1 and 9.

Input Specifications

Your input will be **9 lines,** with each line having **9 integers** separated by spaces followed by a newline. All input will be provided via **STDIN**

Output Specifications

The output should be in the form -
[row,column]=correctvalue

Please note that we expect your output to be **zero-indexed** (that is, the rows & columns should go from 0-8).

Sample Input/Output

Input

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

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

Output

```
[6,7]=8
```

Explanation

The value at the seventh row, eighth column is incorrect and should be 8 instead of 1 (Highlighted in the example above)