

Sudoku

You will get a sudoku as plain text with new line encodings as "\n". The task is to find the first incorrect cell in the sudoku

and send back its position (row and column) along with the correct value for that cell in the following format: "X. row Y. column should have been Z.",

where X is the row number (1-9), Y is the column number (1-9), and Z is the correct value (1-9).

In case the sudoku is correct the response should be a plain text "Sudoku is correct.".

Example

Input:

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

Output:

2. row 5. column should have been 3.