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## Rows and columns

P28318\_en

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Write a program that reads a matrix, and afterwards prints the rows, the columns and the elements that are asked for.

### Input

Input consists of a matrix followed by a sequence of questions about the matrix. The matrix is described with two natural numbers  $n > 0$  and  $m > 0$ , followed by  $n$  lines with  $m$  integer numbers each one. Every question begins with the word "row", "column" or "element". If the word is "row", it is followed by the number of a row. If the word is "column", it is followed by the number of a column. If the word is "element", it is followed by the number of a row and the number of a column. All the given numbers of row and of column are correct, and start with 1.

### Output

For every question, print the row, the column, or the element asked for.

#### Sample input

```
4 6
5 7 6 4 1 2
2 8 1 3 8 8
0 1 2 9 2 1
6 5 4 3 2 1

row 4
column 2
element 1 2
row 1
```

#### Sample output

```
row 4: 6 5 4 3 2 1
column 2: 7 8 1 5
element 1 2: 7
row 1: 5 7 6 4 1 2
```

### Problem information

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