

## Second Largest Values

X51039\_en

Write a program that prints the second largest value in each row of a given matrix. Your solution must meet the following conditions:

- Write a function

```
def second_largest_values (m)
```

that receives a matrix of strictly positive integer numbers and returns a list with the second largest value in each row.

- write a main program that reads a matrix of integers from the input, and prints the second largest values in each row. The program must call the function `second_largest_values`.

### Input

The input is a matrix of strictly positive integers. Each row of the matrix is given in a separate line. All lines have the same amount of elements. Each row contains at least two different values.

### Output

The output is the list of the second largest values in each row, in the format shown in the examples.

#### Sample input 1

```
5 12 23 4
10 7 6 22
9 34 1 112
```

#### Sample output 1

```
second largest in row 0 is 12
second largest in row 1 is 10
second largest in row 2 is 34
```

#### Sample input 2

```
25 12 23 4 9
10 22 22 1 22
3 3 3 2 2
87 34 1 119 87
```

#### Sample output 2

```
second largest in row 0 is 23
second largest in row 1 is 10
second largest in row 2 is 2
second largest in row 3 is 87
```

### Problem information

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