Second Largest Values X33741_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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