

**PROBLEMS** 

**SUBMISSIONS** 

USERS

**CONTESTS** 

**ABOUT** 

HELLO, YAVORYANKOV83.

Java May'19 DSA Final - 1 day 02:57:47

# Small World

Small World is fun board game about conquering the world by different fantasy races. Each race is defined by two interlocking tiles, one giving a noun describing the race (e.g., "Elves") and the other an adjective (e.g., "Flying"), describing an additional special ability or special scoring opportunity.

One of the skills defines that you can move and conquer only fields from same type (lawn, mountain, lakes) that are next to each other. On each turn the player with this race wants to take as many fields as possible.

Given a matrix of 1s (fields from one type that is allowed currently for the user) and 0s (other fields), calculate the **size** of each **conquest**.

- A conquest is formed when each field is connected to another from same type either vertically or horizontally.
- The size of a conquest is the number of conquered fields in it.

# Input

Read from the standard input:

- Line 1 N M dimensions of the matrix that represents the game board.
- Next N lines each of the rows in it.

# **Output**

Print to the standard output:

- · Sizes of the conquests must be sorted in descending order.
- Print each conquest's size on a new line.

# **Constraints**

Submit solution

My submissions All submissions Best submissions

✓ Points: 100 (partial)

**⊙ Time limit:** 0.1s Java: 0.3s

**■ Memory limit:** 32M

Java: 32M

Author:

**♦ Tags**Arrays, Recursion

**♪** Difficulty

Easy

➤ Allowed languages java



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#### Input

5 10
1000000010
1111000011
1000000000
1100001100

#### Output

9 4 3

#### Input

### Output



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# Clarifications

No clarifications have been made at this time.

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