



Maximum borders

48146 63% 20 467 votes Basic Programming, Input/Output Share

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Problem

You are given a table with  $n$  rows and  $m$  columns. Each cell is colored with white or black. Considering the shapes created by black cells, what is the maximum border of these shapes? Border of a shape means the maximum number of consecutive black cells in any row or column without any white cell in between.

A shape is a set of connected cells. Two cells are connected if they share an edge. Note that no shape has a hole in it.

Input format

- The first line contains  $t$  denoting the number of test cases.
- The first line of each test case contains integers  $n, m$  denoting the number of rows and columns of the matrix. Here, '#' represents a black cell and '.' represents a white cell.
- Each of the next  $n$  lines contains  $m$  integers.

Output format

Print the maximum border of the shapes.

Sample Input	Sample Output
10 2 15 ....####.. ....#. .... 7 9 ...###.. ...###.. ..#. .... .####.. ..#. .... ..#####. ..... 18 11 .#####. #####.. .....#. ####.. ....#####. ....##.. ....#####. ....#####.. ....#####.. ...###.. .....#.. ....#####.. ....#####.. ##..... #####.. ....#####.. ....##.. .#####.. .#..... 1 15 ....#####.. 5 11 ..#####.. .#####.. .....#.. ....#####.. ....#####.. 8 13 ....#####.. .....##.. #####.. ...#. .... ..... #####.. ..#####.. #####.. ####.. 7 5 ..... ..##. ###.. ..##. ..... ..#.. .#.. 14 2 .. #.. .. #.. .. #.. .. #.. .. #.. .. 7 15	4 5 9 6 7 8 3 1 14 5

Enter your code or Upload your code as file. Save C (gcc 10.3)

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8
```



Test against custom input

Compile & Test code

Submit code

1:1 vscode

