

1. Maximum borders

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.

2.