(Ir)Responsible Shreyas

time limit per test case: 2 seconds
memory limit per test case: 1 gigabyte

After fracturing his arm after falling from his wave-board, Shreyas took up the responsibility of creating a safe environment for newbies to learn how to ride skateboards and wave-boards. IIITH Administration gave him permission to make a skateboard park in the forest near the main gate, under the only condition that he cannot cut any trees.

The forest can be described by a grid G having N rows and M columns, where the element at the i^{th} row and j^{th} column is denoted by $G_{i,j}$. $G_{i,j}$ is "*" if there is a tree at that location, and "." if it is empty.

Shreyas wants to find **the maximum area of a rectangular field** that can be placed in the forest so that **it does not have any trees in it**. Shreyas is busy (watching anime), so he asks for your help.

Note that area of a rectangle is calculated by counting the number of grid elements in the rectangle.

Constraints

Subtask 1 (30 marks)

$1 \leq N, M \leq 50$
$G_{i,j}$ = "*" or "." (without the quotes)

Subtask 2 (70 marks)

$1 \leq N, M \leq 1000$
$G_{i,j}$ = "*" or "." (without the quotes)

Input

The first line contains two integers N and M, which denotes the size of the forest grid.
The next N line contains M character strings describing the forest. Each character is "." (empty) or "*" (has a tree).

Output

Output contains a single integer denoting the maximum area of a rectangular field that can be placed in the forest so that it does not have any trees in it.

Sample test cases

Test case 1

Input

4 7
...*.*.
.*.....
....
......*

Output

12

Explanation

The rectangle with corners at $(2, 3)$ and $(4, 6)$ has the largest area.
Thus, the area is 12.