## MAXIMUM WOOD CUTTER

## Problem Statement:



At each step,
If you face right,
you can move one step right
If you face left
you can move one step left
you can move one step down and face right

The image explains it all. You initially step at 0,0 facing right. At each step you can move according to the conditions specified in the image. You cannot step into the blocked boxes (in blue). Find the maximum number of trees you can cut.

Input:
The first line consists of an integer $t$, the number of test cases. For each test case the first line consists of two integers $m$ and $n$, the number of rows and columns. Then follows the description of the matrix M .
$M[i][j]=' T$ ' if the region has a tree.
$M[i][j]=' \# '$ if the region is blocked.
M[i][j]='0' (zero) otherwise.

## Output:

For each test case find the maximum trees that you can cut.
Input Constraints:
$1<=t<=10$
$1<=\mathrm{m}, \mathrm{n}<=200$

## Example:

## Sample Input:

4
55
OTTTT
T\#T\#0
\#TT\#T
TOOTO
TO\#T0

## Sample Output:

8
1
3
0
Solution for test case \#1:


