

Examination Elevation

Input file: standard input
Output file: standard output
Time limit: 1 second
Memory limit: 256 megabytes

The Programming Police are selecting a new location for their headquarters! They have a $N \times M$ plot of land in mind but hope to build their HQ at a high elevation, so they may better watch over Programmington. Given a topographic map of the property, find the maximum altitude.

Input

Line 1: Space separated integers, N and M
Lines 2.. N +1: M characters denoting a row

Output

Line 1: The highest elevation

Example

standard input	standard output
9 12 ...*****. ..***.....*.. ..*.....*.. ..**.*...*.. .*..*.*...*.. .*..***...*.. .**.....**.. ..*****..	2

Note

$1 \leq N, M \leq 40$

denotes a topographic line

Only # which are directly in contact (not diagonal) comprise the same line.

There will be no craters, that is, every topographic ring is one unit higher than its surrounding terrain.