



Help Mr. Blobsworth Be A Star!

 by wre01

 locked

Problem

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Leaderboard

Discussions

Help Mr. Blobsworth go from being just a small town blob to a world wide star. His master plan for accomplishing this is to win the Olympic gold medal for wriggling. Wriggling is a sport which involves contorting ones body to move quickly through a narrow maze to reach a goal. Fortunately, Mr. Blobsworth, being an amorphous blob, is a natural born wriggler. A particular wriggling course can be represented as an n by n grid, of which Blobsworth's body takes up m squares. Blobsworth body can take on any shape, so long as his body remains connected through adjacent grid cells (diagonals don't count).

Mr. Blobsworth measures time in blips and has two moves: sliding and stretching. Sliding takes one blip and translates every cell of Blobsworth's body up, down, left or right. For example, if Blobsworth body looks like

```
----
_BB_
__B_
----
```

He can slide to

```
_BB_  or  ----  or  ____  or  ----
__B_    BB__  __BB_  ____
----    _B__  ___B_  _BB_
----    ----  ----  __B_
```

Stretching takes Blobsworth two blips and involves moving one square of his body so that his whole body remains connected. This allows Blobsworth to change his shape and move around tight corners. For example, if Blobsworth's body looks like

```
----
_BB_
__B_
----
```

He can stretch to

```
____  or  __B_  or  _B_  or  ____
_BBB    _BB_    _BB_  BBB_
----      ----      ----      ----
----      ----      ----      ----

____  or  __B_  or  ____  or  ____
_BB_    _B_    __BB_  __B_
__B_    _B_    __B_    __BB_
----      ----      ----      ----
```

https://www.hackerrank.com/contests/usc-acm-fall-2018-350-division/challenges/help-mr-blobsworth-be-a-star

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```

---- or ---- or ----
--B_  --B_  --B_
--B_  --BB_  --BB_
--B_  ----  ----

```

Input Format

The first line contains n and the second line contains m . The next n lines each have m characters corresponding to the grid of a particular wriggling course. The character "_" denotes an empty cell. The character "B" denotes a cell in which Blobsworth's body starts. The character "*" denotes a cell which contains an obstacle. The character "G" denotes the goal cell.

Constraints

$$1 \leq n \leq 10$$

$$1 \leq m \leq 10$$

Output Format

The output should be a single line, which contains the minimum number of blips in which Blobsworth can reach his goal.

Sample Input 0

```

5
3
BB___
_B___
_****
-----
****G

```

Sample Output 0

```

13

```

Explanation 0

The following link shows shortest sequence which brings Mr. Blobsworth to the goal, along with corresponding time in blips

[Pastebin Link](#)

Sample Input 1

```

5
1
B_____
_____
_____
_____
_____G

```

Sample Output 1

```

8

```

f t in



Submissions: 0

Max Score: 100



Difficulty: Hard

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BASH

1

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Run Code

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