

## 6 Easter Egg Maze Hunt

You and a group of friends are partaking in an easter egg hunt, this easter egg hunt involves traversing a maze to obtain the easter egg which resides at the end of the maze. You and your group are all placed at the beginning of the maze, and once the countdown reaches 0 you will all be released into the maze simultaneously to try and find the exit.

Your task is to create a code solution that will give the **shortest path** through the maze so that you can ensure that you will be the first person to reach the end and claim the prize. Below is one example of a maze:

```
+++++  
O      +  
+++++  +++  
+      + + + X  
+      + + +  
+      + +++  
+      +  
+++++
```

O represents the starting point, + represent walls, X is the end point.

For this particular example, the shortest path to the exit is 12 steps.

### 6.1 Input

The first line of input will be two integers separated by a single whitespace,  $X$  and  $Y$ , representing the width and height of the maze, respectively.

The second line of input will denote the **coordinates** of the Starting Point of the maze; be aware that the coordinates **start counting from 0**.

The remainder of the input will be the maze itself, with there being  $Y$  lines of input that are  $X$  characters long.

### 6.2 Output

Your output will be a single integer representing the shortest path from start to the exit.

SAMPLE INPUT/OUTPUT ON THE NEXT PAGE

6.3 Sample Input/Output

Sample Input	Sample Output
19 10 2 0 ++++ ++++ 0 + + ++++ + + + +++ X + +++++ + + + + + + + + +++++ + + + ++++	24