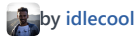




# Mr K marsh



Problem

Submissions

Leaderboard

Discussions

Editorial

Mr K has a rectangular land of size  $m \times n$ . There are marshes in the land where the fence cannot hold. Mr K wants you to find the perimeter of the largest rectangular fence that can be built on this land.

## Input format

The first line contains  $m$  and  $n$ . The next  $m$  lines contain  $n$  characters each describing the state of the land. 'x' (ascii value: 120) if it is a marsh and '.' (ascii value:46) otherwise.

## Constraints

$$2 \leq m, n \leq 500$$

## Output Format

Output contains a single integer - the largest perimeter. If the rectangular fence cannot be built, print "**impossible**" (without quotes).

## Sample Input:1

```
4 5
.....
.x.x.
.....
.....
```

## Output

```
14
```

Fence can be put up across the entire land owned by Mr K. The perimeter is  $2 * (4 - 1) + 2 * (5 - 1) = 14$ .

## Sample Input:2

```
2 2
.x
x.
```

## Output

```
impossible
```

We need minimum of 4 points to place the 4 corners of the fence. Hence, impossible.

## Sample Input:3

```
2 5
.....
```

xxxx.

**Output**

impossible

[f](#) [t](#) [in](#)Submissions: [3115](#)



Max Score: 40




Difficulty: Medium

Rate This Challenge:

☆☆☆☆☆

[More](#)

Current Buffer (saved locally, editable)  

Java 7   

```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8     public static void main(String args[] ) throws Exception {
9         /* Enter your code here. Read input from STDIN. Print output to STDOUT */
10    }
11 }
12
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.[Contest Calendar](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)