Practice



UmeshKanoja

Popular Company Tags

My Profile (https://auth.geeksforgeeks.org/user/UmeshKanoja/practice/)

-Amazon (/company/Amazon) My Transactions (/transactions)

- Amazon (/company/Amazon) My Transactions (/transactions)
 Microsoft (/company/Microsoft/) Logout (https://auth.geeksforgeeks.org/logout.php?to=https%3A%2F%2Fpractice.geeksforgeeks.org%2Fproblems%2Fx-total-shapes
 Oracle (/company/Oracle/)
 Samsung (/company/Samsung/)

- Adobe (/company/Adobe/)
- Synopsys (/company/Synopsys/)
- -Infosys (/company/Infosys/)
- Cisco (/company/Cisco/)
- -Wipro (/company/Wipro/)
- Ola-Cabs (/company/Ola-Cabs/)
- Morgan-Stanley (/company/Morgan-Stanley/)
- Goldman-Sachs (/company/Goldman-Sachs/)

show more (/company-tags)

Popular Topic Tags

- Maths (/topics/maths/)
- -Array (/topics/array/)
- Dynamic-Programming (/topics/Dynamic-Programming/)
- Greedy-Algorithm (/topics/Greedy-Algorithm/)
- Hashing (/topics/hashing/)
- -Tree (/topics/tree/)
- Bit-Algorithm (/topics/bit-algorithm/)
- Matrix (/topics/matrix/)
- Backtracking (/topics/backtracking/)
- Operating System (/topics/Operating Systems/)
- Linked-List (/topics/Linked-List/)
- -Graph (/topics/Graph/)

show more (/topic-tags)

X Total Shapes

Submissions: 7607 (/problem_submissions.php?pid=1233) Accuracy: 54.27% Difficulty: Medium (https://practice.geeksforgeeks.org/Medium/0/0/) Marks: 4

Associated Course(s): Geeks Classes in Noida (/courses/geeks-classes/) Geeks Classes in Noida (/courses/geeks-classes-in-noida/)

(/topics/Graph/) Show Topic Tags

Google (/company/Google/) Amazon (/company/Amazon/)

Given N * M string array of O's and X's

Return the number of 'X' total shapes. 'X' shape consists of one or more adjacent X's (diagonals not included).

Example (1):

000X000

OXXXXXO 0X000X0

answer is 1 , shapes are :

Χ (i)

X X X X

Χ Χ

Example (2):

20/2019	X Total Shapes Practice GeeksforGeeks	
XXX		
000		
XXX		
answer is 2, shapes ar	re	Q L
(i) XXX		
(ii) XXX		N P PATCHER
	ne number of test cases, T. ch of the T test cases takes 2 input lines. se have two integers N and M.The second line of N space separated strings folk	ow which indicate the
Output:		
Print number of shapes.		
Constraints:		
1<=T<=100		
1<=N,M<=50		
Example:		
Input:		
2		
4 7 OOOOXXO OXOXOOX XXX	XXOXO OXXXOOO	
10 3		
XXO OOX OXO OOO XOX X	XOX OXO XXX OOO	
Output:		
4		
6		
** For More Input/Output Exa	amples Use 'Expected Output' option **	
Author: dhruvi (https://auth.geeksforg (/problem_submissions.php?	2nid-1233) //problem_submissions.php?pid-12338isSolved-ALL8lang-ALL8user-Solf)	sions All Submissions
_ · ·	My Submiss Editorial (/editorial.php?pid=1233)	All Subillissions

Theme Light ▼ C++ (g	▼
-----------------------	----------

 $oldsymbol{\diamond}$ (https://auth.geeksforgeeks.org/edit-profile.php) $\ensuremath{\mathcal{G}}$ $\ensuremath{\mathfrak{C}}$ $\ensuremath{\mathcal{C}}$

```
τοr (int p=υ; p<τ; p++){
Z I
22
             cin>>r;
23
             cin>>c;
24
             regions=0;
             char **a = new char*[r], dummy;
25
             for (int i=0; i<r; i++){
26
27
                  a[i] = new char[c];
                  for (int j=0; j<c; j++){
28
29
                      cin>>a[i][j];
30
31
             }
32
33
             for (int i=0; i<r; i++){
                  for (int j=0; j<c; j++){
   if (a[i][j] == 'X') {</pre>
34
35
                           regions++;
36
                           visitX(a, i, j, r, c);
37
                      }
38
39
                  }
             }
40
41
42
             cout<<regions<<endl;</pre>
43
        }
44
15
         naturn a.
```

Test against custom input

Expected Outcome Compile & Test Submit

Correct Answer. Execution Time:0.01

Next Suggested Problem: Nodes at even distance (/problems/nodes-at-even-distance/0/?ref=self)

Need help with your code? Please use ide.geeksforgeeks.org (https://ide.geeksforgeeks.org), generate link and share the link here.

Weekly	Monthly	Overall
blackshadows (https://auth.geeksfo	268	
TusharSharma3 (https://auth.geeksfo	211	
dhananjaykajla (https://auth.geeksfo	195	
PrateekTiwari1 (https://auth.geeksfo	182	
shdev (https://auth.geeksfo	168	
UmeshKanoja (https://auth.geeksfo	8	
→ (/ranking.php)		

Your Rank In Institute Microsoft (https://auth.geeksforgeeks.org/college/microsoft)			
Rank	Score		
76	8		

```
Recent Comments (/recentComments.php)

54 Comments GeeksforGeeks Practice

© Recommend 2  Tweet f Share

Sort by Best
```