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Word Search Challenge

locked

by [subhasis_](#)

Problem

Submissions

Leaderboard

Discussions

You are given an $n \times n$ character Matrix say A and a string say S of any length. You have to search for the string in the matrix. There can be different ways the string can occur in the matrix:

- 1) Horizontally: left to right (wrap around is allowed in same row)
- 2) Vertically: top to down (wrap around is allowed in same column)
- 3) Diagonally: top left to bottom right (no wrap around allowed)

Your goal is to find number of total occurrences of string in matrix.

Input Format

number_of_test_cases

n
characer_matrix
string

n
characer_matrix
string

Constraints

Note : String length can be greater than n.

Output Format

number_of_occurrences number_of_occurrences

Sample Input

2

2
ab
cd
ab

2
ba
cb
ab

Sample Output

1
2

Explanation

Here in the first character matrix, the first row matches search string ab. So the first output is 1. In the second character matrix, first row matches search string ab with wrap around and last column matches as it is. So the second output is 2.

Submissions: 73
Max Score: 60
Difficulty: Easy

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Current Buffer (saved locally, editable)  

C++   

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

 Upload Code as File ☐ Test against custom input

Run Code

Submit Code