

Activities

Firefox Web Browser

Sun 16:49

Problems - Turvo Hiring Challenge - May 26th and 27th - Mozilla Firefox

SpringDevelop X Samsung R & D X Amazon Regis X Invitation For T X Problems -Tur X How to sort H X count number X How to return X

https://www.hackerearth.com/challenge/test/Turvo-Test-2/ 70% Search

Turvo Hiring Challenge - May 26th and 27th 00:00:45 left sudhirthir@gmail.com Help End Test

2 Questions Total Marks: 200.0

2 Programming Questions

1. The shopping problem + 100.0

2. Free walk + 100.0

Free walk

You are on a circular path of infinite radius. From your initial position, you can move either in the clockwise direction or in the anticlockwise direction but only along the circular path. Your movements are represented by a string  $S$  of length  $L$ . This string can consist of three different types of characters, each denoting a move:

- A: You move 1 unit in the anticlockwise direction
- C: You move 1 unit in the clockwise direction
- ?: You move 1 unit either in the clockwise or the anticlockwise direction

Write a program to find the maximum distance from your initial position in any direction at any point of time.

**Input format**

- First line:  $T$  (number of test cases)
- Next  $T$  lines:  $S$

**Output format**

For each test case, print the maximum distance from the initial position in any direction at any point of time.

**Constraints**

$$1 \leq T \leq 10$$
$$1 \leq L \leq 10^5$$

Sample Input

1  
AAAA?C

Sample Output

5

Explanation

If Alex replaces '?' with A he can move 5 unit distance in Anti-Clockwise direction.

**Note:** Your code should be able to convert the sample input into the sample output. However, this is not enough to pass the challenge, because the code will be run on multiple test cases. Therefore, your code must solve this problem.

Time Limit: 1.0 sec(s) for each input file