Policemen - Thieves 2

Problem Submissions Leaderboard Discussions

Certify

an array of size N. Which has the following specifications: Each element in the array contains either a policeman or a thief. Each policeman can catch only one thief. A policeman cannot catch a thief who is more than K units away from him. We need to find the maximum number of thieves that can be caught.



Input Format

6

Ρ

Τ

Р

Т

Т

Ρ

3

Output Format

Maximum thieves caught: 3

Sample Input 0

Privacy - Terms

```
6
P
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3
```

Sample Output 0

Maximum thieves caught: 3

```
f in

Contest ends in a month

Submissions: 70

Max Score: 10

Difficulty: Medium

Rate This Challenge:

☆ ☆ ☆ ☆ ☆
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More

```
Java 15
                                                                                                         Ö
1 vimport java.io.∗;
2
   import java.util.*;
3
4 ▼public class Solution {
5
6 🔻
        public static void main(String[] args) {
7
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should
    be named Solution. */
8
            Scanner sc=new Scanner(System.in);
9
            int count=0,p=0,t=0,m=0,l=0;
10
            int n=sc.nextInt();
            char arr[]=new char[n];
11 1
            List<Integer> pr=new ArrayList<>();
12
            List<Integer> tr=new ArrayList<>();
13
            for(int i=0;i<n;i++){</pre>
14
                     arr[i]=sc.next().charAt(0);
15 ₹
16
                     if(arr[i]=='P')
17
                         pr.add(i);
                     else
18
19
                         tr.add(i);
20
21
            int k=sc.nextInt();
22
23
            int i=0, j=0;
24
25 🔻
            while(i<pr.size() && j< tr.size()){</pre>
26
                 int prr=pr.get(i);
27
                 int trr=tr.get(j);
28
                 if(Math.abs(prr-trr)<=k){</pre>
29
                     count++;
30
                     i++;
31
                     j++;
32
                 else if(prr<trr){</pre>
33 •
34
                     i++;
```

```
35
  36
                    else{
  37
                         j++;
  38
                    }
  39
                System.out.print("Maximum thieves caught: "+count);
  40
           }
  41
  42 }
                                                                                                            Line: 1 Col: 1
                           Test against custom input
                                                                                             Run Code
                                                                                                           Submit Code
<u>1</u> <u>Upload Code as File</u>
```

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