Policemen - Thieves 2

Problem	Submissions	Leaderboard	Discussions

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
P
T
P
T
T
P
3

Output Format

Maximum thieves caught: 3

Sample Input 0

```
6
P
T
P
T
T
P
3
```

Sample Output 0

```
Maximum thieves caught: 3
```

Contest ends in a month

Submissions: 70
Max Score: 10
Difficulty: Medium

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More

Java 15

```java
1  import 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;
10         int n=sc.nextInt();
11         char arr[]=new char[n];
12         for(int i=0;i<n;i++)
13             arr[i]=sc.next().charAt(0);
14         int k=sc.nextInt();
15
16
17         for(int i=0;i<n;i++){
18             if(arr[i]=='P'){
19                 for(int j=1;j<=k;j++){
20                     if(i+j<n && arr[i+j]=='T'){
21                         count++;
22                         arr[i+j]='C';
23                         break;
24                     }
25                 }
26             }
27             else if(arr[i]=='T'){
28                 for(int j=1;j<=k;j++){
29                     if(i+j<n && arr[i+j]=='P'){
30                         count++;
31                         arr[i+j]='C';
32                         break;
33                     }
34                 }
```

```
35                }
36            }
37            System.out.print("Maximum thieves caught: "+count);
38        }
39 }
```

Line: 1 Col: 1

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