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Contest Code: FEB222C Problem Code: WCC



The World Chess Championship 2022 is about to start. 14 Classical games will be played between Chef and Carlsen in the championship, where each game has one of three outcomes — it can be won by Carlsen, won by Chef, or it can be a draw. The winner of a game gets 2 points, and the loser gets 0 points. If it's a draw, both players get 1 point each.

The total prize pool of the championship is $100 \cdot X$. At end of the 14 Classical games, if one player has **strictly more** points than the other, he is declared the champion and gets $60 \cdot X$ as his prize money, and the loser gets $40 \cdot X$.

If the total points are **tied**, then the defending champion Carlsen is declared the winner. However, if this happens, the winner gets only $55 \cdot X$, and the loser gets $45 \cdot X$.

Given the results of all the $14~{\rm games}$, output the prize money that Carlsen receives.

The results are given as a string of length 14 consisting of the characters C, N, and D.

- C denotes a victory by Carlsen.
- N denotes a victory by Chef.
- D denotes a draw.

Input Format

- The first line of input contains an integer T, denoting the number of test cases. The description of T test cases follows.
- The first line of each test case contains one integer X, denoting that the total prize pool is $100 \cdot X$.
- \bullet The second line contains the results of the match, as a string of length 14 containing only the characters C, N, and D.

Output Format

For each test case, output in a single line the total prize money won by Carlsen.

Constraints

- $1 \le T \le 1000$
- $1 \le X \le 10^6$
- |S| = 14
- ullet S contains only characters D, C, N.

Subtasks

Subtask #1 (100 points): Original constraints

Sample Input 1 🖆

4

100

ccccccccccc

400

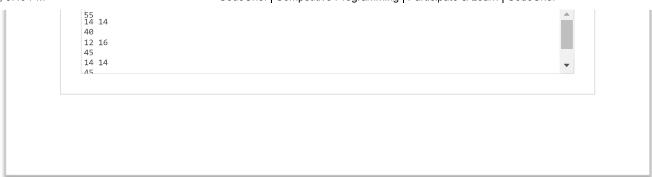
CDCDCDCDCDCDCD

30

DDCCNNDDDCCNND

```
1
      NNDNNDDDNNDNDN
      Sample Output 1 4
      24000
      1650
      40
      Explanation
      Test case 1: Since Carlsen won all the games, he will be crowned the champion and will get 60 \cdot X as the
      prize money which is 60 \cdot 100 = 6000
      Test case 2: Carlsen won 7 games and drew 7, so his score is 2 \cdot 7 + 1 \cdot 7 = 21. Chef lost 7 games and
      drew 7, so his score is 0 \cdot 7 + 1 \cdot 7 = 7. Since Carlsen has more points, he will be crowned the champion
      and will get 60 \cdot X as the prize money which is 60 \cdot 400 = 24000
      Test case 3: Carlsen and Chef both end up with 14 points. So, Carlsen is declared the winner, but because
      the points were tied, he receives 55 \cdot X = 55 \cdot 30 = 1650 in prize money.
 Status Wrong Answer X Time 0.08 sec Solution 58235937
                                                                                                                            ×
                                                                                                            <u>+</u>
   JAVA
                                            Û
                                                 Code gets autosaved every second
        /* package codechef; // don't place package name! */
        import java.util.*;
import java.lang.*;
        import java.io.*;
        /st Name of the class has to be "Main" only if the class is public. st/
    9
   10
            public static void main (String[] args) throws java.lang.Exception
   11
12
                Scanner sc = new Scanner(System.in);
char w = 'C';
   13
                 cnar w = C;
int n = sc.nextInt();
for(int i = 0; i < n; i++){
   int[] arr = {0,0};
   long x = sc.nextLong();</pre>
   14
   15
   16
   17
                    String str = sc.next();
count(str, arr);
w = winner(arr, x, w);
   18
19
   20
21
                     System.out.println(arr[0] +" "+arr[1]);
   23
            }
            public static char winner(int[] arr, long x, char w){
  if(arr[0] == arr[1]){
   if(w == 'C'){
   25
   26
   27
                         System.out.println(55 * x);
   28
 20:45
                                                                                                                             C
   Open File
                                                                                                     Run
                                                                                                                      Submit
Custom Input
CCCCCCNNNNNN
CNCNCNCNCNNNN
NCNCNCNCNCNCNC
 ×
    Input
     CCCCCCNNNNNNN
     CNCNCNCNCNNNN
```

Output



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