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# Funny String

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Suppose you have a String,  $S$ , of length  $N$  that is indexed from  $0$  to  $N - 1$ . You also have some String,  $R$ , that is *the reverse* of String  $S$ .  $S$  is *funny* if the condition  $|S[i] - S[i - 1]| = |R[i] - R[i - 1]|$  is true for every character  $i$  from  $1$  to  $N - 1$ .

**Note:** For some String  $S$ ,  $S[i]$  denotes the *ASCII* value of the  $i^{\text{th}}$   $0$ -indexed character in  $S$ . The *absolute value* of an integer,  $x$ , is written as  $|x|$ .

## Input Format

The first line contains an integer,  $T$  (the number of test cases).

Each line  $i$  of the  $T$  subsequent lines contain a string,  $S$ .

## Constraints

- $1 \leq T \leq 10$
- $0 \leq i \leq T - 1$
- $2 \leq \text{length of } S \leq 10000$

## Output Format

For each String  $S_j$  (where  $0 \leq j \leq T - 1$ ), print whether it is **Funny** or **Not Funny** on a new line.

## Sample Input

```
2
acxz
bcxz
```

## Sample Output

```
Funny
Not Funny
```

## Explanation

Test Case 0:  $S = \text{"acxz"}$

$$|c - a| = 2 = |x - z|$$

$$|x - c| = 21 = |c - x|$$

$$|z - x| = 2 = |a - c|$$

As each comparison is equal, we print **Funny**.

Test Case 1:  $S = \text{"bcxz"}$

$$|c - b| = 1, \text{ but } |x - z| = 2$$

At this point, we stop evaluating  $S$  (as  $|c - b| \neq |x - z|$ ) and print **Not Funny**.

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Max Score: 25

Difficulty: Easy

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C#  

```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 class Solution {
5     static void Main(string[] args)
6     {
7
8         int t = int.Parse(Console.ReadLine());
9
10        while (t-- > 0)
11        {
12
13            string str = Console.ReadLine();
14            //string str = "bcxz"; // Console.ReadLine();
15            //string str = "acxz";
16
17            char[] S = str.ToCharArray();
18            char[] R = str.ToCharArray();
19            Array.Reverse(R);
20
21            string ans = "Funny";
22
23            for (int i = 1; i < S.Length; i++)
24            {
25                if (Math.Abs(S[i] - S[i - 1]) != Math.Abs(R[i] - R[i - 1]))
26                {
27                    ans = "Not Funny";
28                    break;
29                }
30            }
31            Console.WriteLine(ans);
32
33        }
34
35        Console.ReadLine();
36    }
37 }
```

Line: 36 Col: 10

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

## Congrats, you solved this challenge!

✓ Test Case #0  
✓ Test Case #3  
✓ Test Case #6  
✓ Test Case #9

✓ Test Case #1  
✓ Test Case #4  
✓ Test Case #7

✓ Test Case #2  
✓ Test Case #5  
✓ Test Case #8



Next Challenge

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