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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 $i^{th}$ $0$-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*: $S = \text{"bcxz"}$
$|c - b| = 1$, but $|x - z| = 2$
At this point, we stop evaluating $S$ (as $|c - b| \neq |x - z|$) and print **Not Funny**.

f   y   in

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String Basics

More

| Current Buffer (saved locally, editable)  ⑂ ⟳ | | Java 7 ⌄ | ⤢ | ⚙ |

```java
1  import java.io.*;
2  import java.util.*;
3  import java.text.*;
4  import java.math.*;
5  import java.util.regex.*;
6
7  public class Solution {
8
9      static String funnyString(String s){
10         // Complete this function
11     }
12
13     public static void main(String[] args) {
14         Scanner in = new Scanner(System.in);
15         int q = in.nextInt();
16         for(int a0 = 0; a0 < q; a0++){
17             String s = in.next();
18             String result = funnyString(s);
19             System.out.println(result);
20         }
21     }
22 }
23
```

Line: 1 Col: 1

⬆ Upload Code as File        ☐ Test against custom input                    Run Code      Submit Code

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