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Day 29: Look at Everything We've Learned!



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Problem

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Welcome to Day 29! Check out the tutorial on [programming language fundamentals](#), or just jump right into the problem. Congratulations on finishing the series, and good luck!

Suppose you have some string S having 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 i from 1 to $N - 1$.

Note: For some string str , str_i denotes the [ASCII](#) value of the i^{th} 0-indexed character in str . The *absolute value* of some integer, x , is written as $|x|$.

Input Format

The first line contains an integer, T (the number of test cases).
The T subsequent lines each contain one string S .

Constraints

$$1 \leq T \leq 10$$

$$2 \leq \text{length of } S \leq 10000$$

Output Format

For each string S , print whether it is **Funny** or **Not Funny** on a new line (i.e.: the i^{th} line of output should be the answer for input string S_i).

Sample Input

```
2
acxz
bcxz
```

Sample Output

```
Funny
Not Funny
```

Explanation

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

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

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

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

We print **Funny**.

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


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

We stop evaluating the string (as $|c - b| \neq |x - z|$), and print **Not Funny**.

Submissions: 1025

Max Score: 100

Difficulty: Moderate

[More](#)Current Buffer (saved locally, editable)  C++ 

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

 [Upload Code as File](#)

Test against custom input

Run Code

Submit Code

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