Funny String

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Problem Statement

Suppose you have a string S that has the length N. It is indexed from 0 to $N-1$. String R is the reverse of string S. The string 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: Given a string str, str_i denotes the ascii value of the i^{th} character (0-indexed) of str. Here, $|x|$ denotes the absolute value of an integer x.

Input Format

The first line of input will contain an integer T, the number of test cases. Each of the next T lines contains one string S.

Constraints

- $1 \leqslant T \leqslant 10$
- $2 \leqslant \text{length of } S \leqslant 10000$

Output Format

For each string, print `Funny` or `Not Funny` on separate lines.

Sample Input

```
2
acxz
bcxz
```

Sample Output

```
Funny
Not Funny
```

Explanation

Consider the 1st test case: `acxz`

Here:

```
|c-a| = |x-z| = 2
|x-c| = |c-x| = 21
|z-x| = |a-c| = 2
```

Hence, the string is `Funny`.

Consider the 2nd test case: `bcxz`

Here:

```
|c-b| != |x-z|
```

Hence, the string is `Not Funny`.

Related Topics

String Basics

Submissions: 26673

Max Score: 25

Difficulty: Easy

More

Current Buffer (saved locally, editable) Java 8

```
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      }
9  }
```

Line: 1 Col: 1

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