Funny String

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`.