

## Problem Statement

Suppose you have a string  $S$  which has length  $N$  and is indexed from  $0$  to  $N - 1$ . String  $R$  is the reverse of the 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  $str$ .  $|x|$  denotes the absolute value of an integer  $x$ )

## Input Format

First line of the input will contain an integer  $T$ .  $T$  testcases follow. Each of the next  $T$  lines contains one string  $S$ .

## Constraints

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

## Output Format

For each string, print **Funny** or **Not Funny** in separate lines.

## Sample Input

```
2
acxz
bcxz
```

## Sample Output

```
Funny
Not Funny
```

## Explanation

Consider the 1<sup>st</sup> testcase **acxz**

here

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

Hence **Funny**.

Consider the 2<sup>nd</sup> testcase **bcxz**

here

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

Hence Not Funny.