Funny String

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 ith 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

- $1 \leq T \leq 10$
- $0 \leq i \leq T-1$
- $2 \leq$ 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 = $ "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 = $ "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**.