# **Funny String**

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 | \S[j]-S[j-1] | = | \R[j]-R[j-1] | $$  is true for every \$j\$ from \$1\$ to \$N-1\$.

**Note**: For some string \$S\$, S[j]\$ denotes the ASCII value of the  $j^{th}$ \$ zero-indexed character in \$S\$. 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 a string, where the \$i^{th}\$ line is string \$S i\$.

#### **Constraints**

```
$1 \leq T \leq 10$
$0 \leq i \leq T-1$
$2 \leq \text{length of }S_i \leq 10000$
```

# **Output Format**

For each \$S\_i\$, print Funny or Not Funny on a new line.

### Sample Input

```
2
acxz
bcxz
```

## **Sample Output**

Funny Not Funny

#### **Explanation**

```
Test Case 0: S_0 = \ \arrowvert S_0 = \ \arrowver
```