HW 1

Submit the .c file. Follow the input and output format as mentioned in the problem statement

Problem

Suppose you have a string S that has the length N. 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 ith character (0 indexed) of str. Here, |x| denotes the absolute value of an integer x.

To calculate absolute value of an integer, you may use *abs(integer value)* function, as supported in stdlib.h.

Implement a function

char* checkfunny(char* s)

that takes the string as argument and returns a string “Funny” or “Not Funny” (without “”). Call this function in your main method. We shall verify for this.

Input

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 (all lowercase).

Constraints

$1 \leq T \leq 100$
$2 \leq$ length of $S \leq 1000$

Output

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

Sample Input

2
acxz
bcxz

Sample Output

Funny
Not Funny