SWE2004: Principles in Programming (Spring 2013)

Description

A sequence of $n > 0$ integers is called a *jolly jumper* if the absolute values of the differences between successive elements take on all possible values 1 through $n - 1$. For instance,

1 4 2 3

is a jolly jumper, because the absolute differences are 3, 2, and 1, respectively. The definition implies that any sequence of a single integer is a jolly jumper. Write a program to determine whether each of a number of sequences is a jolly jumper.

Input

Each line of input contains an integer $n < 3,000$ followed by n integers representing the sequence.

Output

For each line of input generate a line of output saying ``Jolly'' or ``Not jolly''.

Sample Input

4 1 4 2 3
5 1 4 2 -1 6

Sample Output

Jolly
Not jolly

input	output
| 4 1 4 2 3 | ```
kwangmin@kwangmin-Ubuntu:~/TA/lab2$ ./a.out < input1.txt
Jolly
kwangmin@kwangmin-Ubuntu:~/TA/lab2$
``` |
| 5 1 4 2 -1 6 | ```
kwangmin@kwangmin-Ubuntu:~/TA/lab2$ ./a.out < input2.txt
Not Jolly
kwangmin@kwangmin-Ubuntu:~/TA/lab2$
``` |