

JOLLY JUMPERS

CHALLENGE DESCRIPTION:

Credits: Programming Challenges by Steven S. Skiena and Miguel A. Revilla

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 $n - 1$. eg.

```
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 SAMPLE:

Your program should accept as its first argument a path to a filename. Each line in this file is one test case. Each test case will contain an integer $n < 3000$ followed by n integers representing the sequence. The integers are space delimited.

For example:

```
4 1 4 2 3
3 7 7 8
9 8 9 7 10 6 12 17 24 38
```

OUTPUT SAMPLE:

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

For example:

```
Jolly
Not jolly
Not jolly
```