



## Problem D: Non-boring sequences

*We were afraid of making this problem statement too boring, so we decided to keep it short.*

A sequence is called **non-boring** if its every connected subsequence contains a unique element, i.e. an element such that no other element of that subsequence has the same value.

Given a sequence of integers, decide whether it is **non-boring**.

### Input

The first line of the input contains the number of test cases  $T$ . The descriptions of the test cases follow:

Each test case starts with an integer  $n$  ( $1 \leq n \leq 200\,000$ ) denoting the length of the sequence. In the next line the  $n$  elements of the sequence follow, separated with single spaces. The elements are non-negative integers less than  $10^9$ .

### Output

Print the answers to the test cases in the order in which they appear in the input. For each test case print a single line containing the word **non-boring** or **boring**.

### Example

Input	Output
4	non-boring
5	boring
1 2 3 4 5	non-boring
5	boring
1 1 1 1 1	
5	
1 2 3 2 1	
5	
1 1 2 1 1	