## 1608 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 $n(1 \leq n \leq 200000)$ 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'.

## Sample Input

4
5
12345
5
11111
5
12321
5
11211

## Sample Output

```
non-boring
boring
non-boring
boring
```

