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  $(1 \le n \le 200000)$  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

## Sample Output

non-boring boring non-boring boring