## Order of the sequence

Given an array of length n. Check if the array is strictly increasing or strictly decreasing. An array, named A is strictly increasing if A[i] > A[i-1] for every  $i \ge 1$ 

## Input

The first line contains the length of the array n  $(1 < n \le 10^5)$ 

The second line contains n integers which are elements of the array, respectively.

## **Output**

If the given array is strictly increasing, output "increasing".

If the given array is strictly decreasing, output "decreasing", otherwise output "none".

## Sample

Input	Output
4	none
1 1 1 1	
3	none
1 2 2	