

# Palindrome Array

Input file:            **standard input**  
Output file:           **standard output**  
Time limit:            1 second  
Memory limit:          256 megabytes

Given a number  $N$  and an array  $A$  of  $N$  numbers. Determine if it's **palindrome** or **not**.

**Note:**

An array is called **palindrome** if it reads the same backward and forward, for example, arrays **1** and **1,2,3,2,1** are **palindromes**, while arrays **1,12** and **4,7,5,4** are **not**.

**NOTE:** Solve it using recursion.

## Input

First line contains a number  $N$  ( $1 \leq N \leq 10^5$ ) number of elements.

Second line contains  $N$  numbers ( $1 \leq A_i \leq 10^9$ ).

## Output

Print “**YES**” (without quotes) if  $A$  is a **palindrome** array, otherwise, print “**NO**” (without quotes).

## Examples

standard input	standard output
5 1 3 2 3 1	YES
4 1 2 3 4	NO