

# Symmetric or not

Given a list of numbers check if it is symmetric by its middle element or not i.e. {1,2,2,1} and {1,2,3,2,1} are symmetric while {1,2,3} and {1,2,2} are not symmetric.

## Input

First line contains N, size of the list ( $1 \leq N \leq 50$ )

Second line contains N numbers ( $0 \leq \text{each number} \leq 50$ ) representing the list of numbers.

## Output

Prints one line containing either "Yes" if it is symmetric or "No" if it is not symmetric.

## Example

**Input:**

5

1 2 3 2 1

**Output:**

Yes