## Problem B. Permutation Check

Time limit 2000 ms Mem limit 1048576 kB

### **Problem Statement**

You are given a sequence of N integers between 1 and N (inclusive):  $A=(A_1,A_2,\ldots,A_N)$ 

Determine whether A is a permutation of (1, 2, ..., N).

#### **Constraints**

- $1 \le N \le 10^3$
- $1 \leq A_i \leq N$
- All values in input are integers.

#### Input

Input is given from Standard Input in the following format:

$$egin{pmatrix} N \ A_1 \ A_2 \ \dots \ A_N \end{pmatrix}$$

### Output

If A is a permutation of (1, 2, ..., N), print Yes; otherwise, print No.

### Sample 1

Input	Output
5 3 1 2 4 5	Yes

(3,1,2,4,5) is a permutation of (1,2,3,4,5), so we should print Yes.

## Sample 2

Input	Output
6 3 1 4 1 5 2	No

(3,1,4,1,5,2) is not a permutation of (1,2,3,4,5,6), so we should print No .

# Sample 3

Input	Output
3 1 2 3	Yes

# Sample 4

Input	Output
1 1	Yes