

# Duplicate

## Problem Statement

You will be given an array **A** of size **N**. Print "**YES**" if there is any duplicate value in the array, "**NO**" otherwise.

## Input Format

- First line will contain **N**.
- Second line will contain the array **A**.

## Constraints

1.  $1 \leq N \leq 100000$
2.  $0 \leq A[i] \leq 10^9$ ; Where  $0 \leq i < N$

## Output Format

- Output "**YES**" or "**NO**" without the quotation marks according to the problem statement.

## Sample Input 0

```
5
1 2 3 4 5
```

## Sample Output 0

```
NO
```

## Sample Input 1

6  
2 1 3 5 2 1

### Sample Output 1

YES

## Get Prefix Sum

### Problem Statement

You will be given an integer array **A** of size **N**. You need to print the prefix sum array of the array **A** in reverse order.

### Input Format

- First line will contain **N**.
- Next line of contain the array **A**.

### Constraints

1.  $1 \leq N \leq 10^5$
2.  $1 \leq A[i] \leq 10^9$ ; Where  $0 \leq i < N$

### Output Format

- Output the prefix sum array in reverse order.

### Sample Input 0

5

2 4 1 5 3

### Sample Output 0

15 12 7 6 2

### Explanation 0

The prefix sum of the given array is: 2 6 7 12 15.

The reverse order is: 15 12 7 6 2.

### Sample Input 1

3

1000000000 1000000000 1000000000

### Sample Output 1

3000000000 2000000000 1000000000

**Sorted**

### Problem Statement

You will given an array **A** of size **N**. You need to tell if the array is already sorted or not. If the array is sorted in **ascending** order print "**YES**", otherwise print "**NO**".

### Input Format

- First line will contain **T**, the number of test cases.
- The first line of each test case will contain **N**.
- The second line of each test case will contain the array **A**.

### Constraints

1.  $1 \leq T \leq 1000$
2.  $1 \leq N \leq 1000$
3.  $0 \leq A[i] \leq 1000$ ; Where  $0 \leq i < N$

### Output Format

- Output "**YES**" or "**NO**" without the quotation marks according to the problem statement.

### Sample Input 0

```
3
5
2 4 6 7 10
8
1 100 101 120 120 121 1000 1000
4
100 1 102 12
```

### Sample Output 0

```
YES
YES
NO
```

## Insert it

### Problem Statement

You will given an integer array **A** of size **N** and another array **B** of size **M**. Also you will be given an index **X**. You need to insert the whole array **B** to the index **X** of array **A**.

### Input Format

- First line will contain **N**.
- Second line will contain array **A**.
- Third line will contain **M**.
- Fourth line will contain array **B**.
- The last line will contain **X**.

### Constraints

1.  $1 \leq N, M \leq 10^3$
2.  $1 \leq A[i], B[j] \leq 10^3$ ; Where  $0 \leq i < N$  and  $0 \leq j < M$
3.  $0 \leq X \leq N$

### Output Format

- Output the final array **A**.

### Sample Input 0

```
5
2 3 4 5 6
3
10 20 30
3
```

### Sample Output 0

```
2 3 4 10 20 30 5 6
```

### Sample Input 1

```
5
2 3 4 5 6
3
10 20 30
0
```

### Sample Output 1

```
10 20 30 2 3 4 5 6
```

### Sample Input 2

```
4
3 4 5 6
3
10 20 30
4
```

### Sample Output 2

```
3 4 5 6 10 20 30
```

## Printing X

### Problem Statement

You will be given an positive **odd** integer **N**, you need to print the pattern for it. See sample input and output for understanding the pattern.

### Input Format

- Input will contain only **N**.

### Constraints

1.  $1 \leq N \leq 20$  and N is odd.

### Output Format

- Output the pattern.

### Sample Input 0

5

### Sample Output 0

```
\ /  
\ /  
X  
/\  
/ \
```

### Sample Input 1

7

### Sample Output 1

```
\ /  
\ /  
\ /  
X  
/\  
/\  
/ \
```

### Sample Input 2

3

### Sample Output 2

\\  
X  
/\

### Sample Input 3

1

### Sample Output 3

X

