1. Find the Maximum Element

Problem:
Given an array of n integers, find and print the maximum element.

Input:
The first line contains an integer n (1 ≤ n ≤ 100).
The second line contains n space-separated integers.

Output:
Print the maximum element in the array.

Example:
Input:

5

1 2 3 4 5

Output:

5

2. Count Positive and Negative Numbers

Problem:
Given an array of n integers, count how many are positive and how many are negative.

Input:
The first line contains an integer n (1 ≤ n ≤ 100).
The second line contains n space-separated integers.

Output:
Print two integers: the count of positive numbers and the count of negative numbers.

Example:
Input:

6

-1 -2 3 4 -5 6

Output:

3 3

3. Sum of Array Elements

Problem:
Given an array of n integers, calculate the sum of its elements.

Input:
The first line contains an integer n (1 ≤ n ≤ 100).
The second line contains n space-separated integers.

Output:
Print the sum of the elements.

Example:
Input:

5

1 2 3 4 5

Output:

15

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4. Find the Second-Largest Element

Problem:
Find the second-largest number in an array.

Input:
The first line contains an integer n (2 ≤ n ≤ 100).
The second line contains n space-separated integers.

Output:
Print the second-largest number.

Example:
Input:

5

2 3 1 4 5

Output:

4

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5. Reverse the Array

Problem:
Reverse the given array and print it.

Input:
The first line contains an integer n (1 ≤ n ≤ 100).
The second line contains n space-separated integers.

Output:
Print the reversed array as a single line.

Example:
Input:

4

1 2 3 4

Output:

4 3 2 1

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6. Find the Frequency of an Element

Problem:
Given an array of n integers and a number x, find the frequency of x in the array.

Input:
The first line contains an integer n (1 ≤ n ≤ 100).
The second line contains n space-separated integers.
The third line contains the integer x.

Output:
Print the frequency of x.

Example:
Input:

6

1 2 2 3 2 4

2

Output:

3

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7. Rotate the Array to the Left

Problem:
Rotate the array k times to the left.

Input:
The first line contains two integers n and k (1 ≤ n ≤ 100, 0 ≤ k ≤ n).
The second line contains n space-separated integers.

Output:
Print the rotated array as a single line.

Example:
Input:

5 2

1 2 3 4 5

Output:

3 4 5 1 2

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8. Check if Array is Sorted

Problem:
Check whether a given array is sorted in ascending order.

Input:
The first line contains an integer n (1 ≤ n ≤ 100).
The second line contains n space-separated integers.

Output:
Print "YES" if the array is sorted in ascending order, otherwise "NO".

Example:
Input:

5

1 2 3 4 5

Output:

YES

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9. Replace All Even Numbers with Zero

Problem:
Replace all even numbers in the array with zero.

Input:
The first line contains an integer n (1 ≤ n ≤ 100).
The second line contains n space-separated integers.

Output:
Print the updated array as a single line.

Example:
Input:

5

1 2 3 4 5

Output:

1 0 3 0 5

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10. Find the Median of the Array

Problem:
Find the median of an array. If n is odd, print the middle element; if n is even, print the smaller of the two middle elements.

Input:
The first line contains an integer n (1 ≤ n ≤ 100).
The second line contains n space-separated integers.

Output:
Print the median.

Example:
Input:

5

1 3 2 4 5

Output:

3