

1. Find the Sum of All Elements in an Array

Problem Statement:

Write a program to read `n` integers from the user, store them in an array, and calculate the sum of all elements.

Expected Input:

```
Enter the number of elements: 5
Enter 5 elements: 10 20 30 40 50
```

Expected Output:

```
Sum of array elements = 150
```

2. Count Even and Odd Numbers in the Array

Problem Statement:

Read `n` integers into an array and count how many are even and how many are odd.

Expected Input:

```
Enter the number of elements: 6
Enter 6 elements: 1 2 3 4 5 6
```

Expected Output:

```
Even count = 3
Odd count = 3
```

3. Reverse the Array

Problem Statement:

Take an array from the user and display its elements in reverse order.

Expected Input:

```
Enter the number of elements: 5
Enter 5 elements: 11 22 33 44 55
```

Expected Output:

```
Array in reverse order: 55 44 33 22 11
```

4. Search for an Element in the Array

Problem Statement:

Take an array and an element from the user, and check if the element exists in the array.

Expected Input:

```
Enter the number of elements: 5
Enter 5 elements: 10 20 30 40 50
```

```
Enter element to search: 30
```

Expected Output:

```
Element found at position: 3
```

(Position is 1-based)

5. Copy Elements from One Array to Another

Problem Statement:

Take an array from the user and copy its elements into another array.

Expected Input:

```
Enter the number of elements: 4  
Enter 4 elements: 1 2 3 4
```

Expected Output:

```
Elements copied to new array: 1 2 3 4
```
