1. Reverse an Array

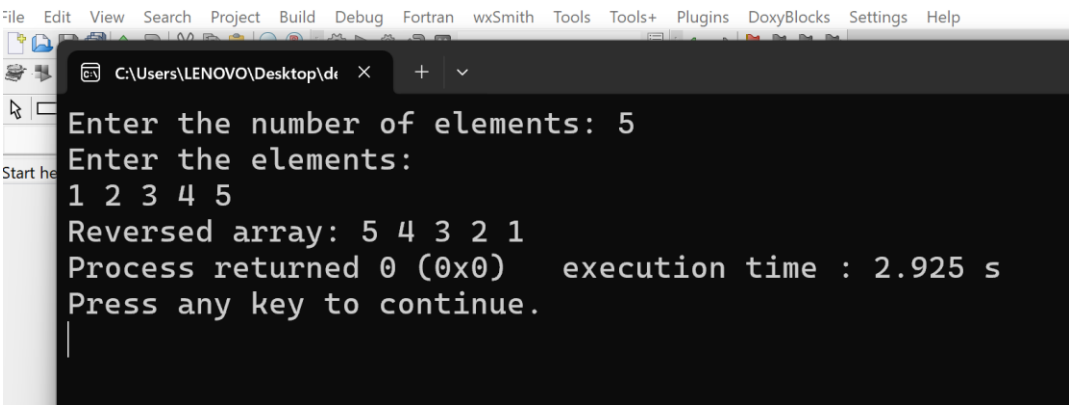
Description:

- Print the array elements in reverse order.

Code:

```c
#include <stdio.h>

int main() {
    int n;
    printf("Enter the number of elements: ");
    scanf("%d", &n);
    int arr[n];
    printf("Enter the elements:\n");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    printf("Reversed array: ");
    for (int i = n - 1; i >= 0; i--) {
        printf("%d ", arr[i]);
    }
    return 0;
}
```

Example Output:



2. Sum and Average of Array

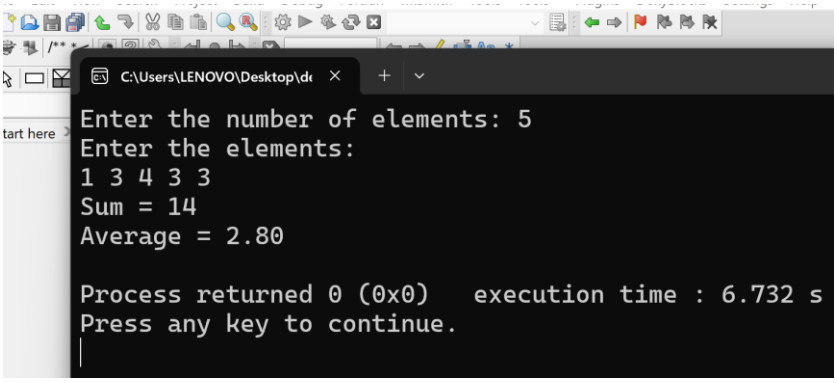
Description:

- Calculate and print the sum and average of array elements.

Code:

```c
#include <stdio.h>

int main() {
    int n, sum = 0;
    printf("Enter the number of elements: ");
    scanf("%d", &n);

    int arr[n];
    printf("Enter the elements:\n");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
        sum += arr[i];
    }

    float average = (float)sum / n;
    printf("Sum = %d\n", sum);
    printf("Average = %.2f\n", average);
    return 0;
}
```

Example Output:



3. Count Duplicates in Arrayy

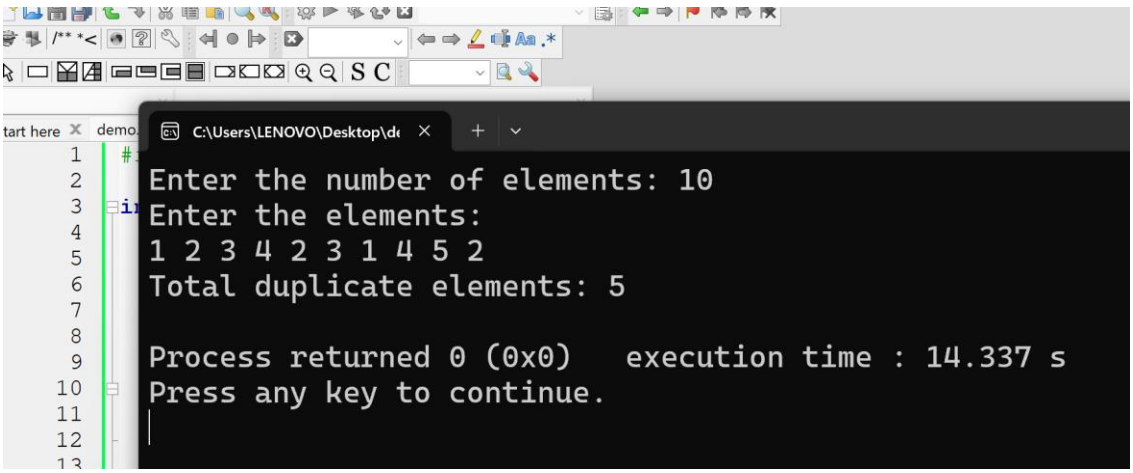
Description:

- Count the number of duplicate elements in the array.

Code:

```c
#include <stdio.h>

int main() {
    int n, count = 0;
    printf("Enter the number of elements: ");
    scanf("%d", &n);

    int arr[n];
    printf("Enter the elements:\n");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    for (int i = 0; i < n; i++) {
        for (int j = i + 1; j < n; j++) {
            if (arr[i] == arr[j]) {
                count++;
                break;
            }
        }
    }

    printf("Total duplicate elements: %d\n", count);
    return 0;
}
```

Example Output:



4. Count Frequency of Each Element

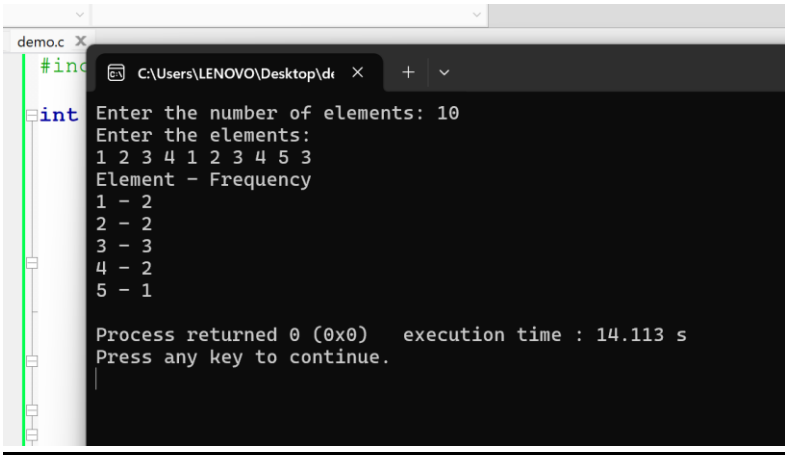
Description:

Count the frequency of each element in the array.

Code:

```c
#include <stdio.h>

int main() {
    int n;
    printf("Enter the number of elements: ");
    scanf("%d", &n);
    int arr[n];
    printf("Enter the elements:\n");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    printf("Element - Frequency\n");
    for (int i = 0; i < n; i++) {
        int count = 1;
        if (arr[i] != -1) {
            for (int j = i + 1; j < n; j++) {
                if (arr[i] == arr[j]) {
                    count++;
                    arr[j] = -1;
                }
            }
            printf("%d - %d\n", arr[i], count);
        }
    }

    return 0;
}
```

Example Output:



5. Find Maximum and Minimum

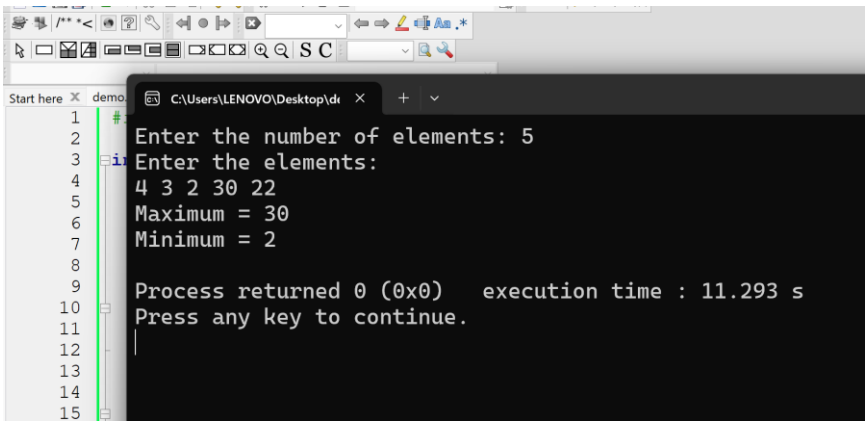
Description:

- Find the maximum and minimum elements in the array.

Code:

```c
#include <stdio.h>

int main() {
    int n;
    printf("Enter the number of elements: ");
    scanf("%d", &n);

    int arr[n];
    printf("Enter the elements:\n");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    int max = arr[0];
    int min = arr[0];
    for (int i = 1; i < n; i++) {
        if (arr[i] > max){
            max = arr[i];
        }
        if (arr[i] < min) {
            min = arr[i];
        }
    }

    printf("Maximum = %d\n", max);
    printf("Minimum = %d\n", min);
    return 0;
}
```

Example Output:



6. Sort the Array

Description:

- Sort the array in ascending order.

Code:

```c
#include <stdio.h>

int main() {
    int n;
    printf("Enter the number of elements: ");
    scanf("%d", &n);

    int arr[n];
    printf("Enter the elements:\n");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    for (int i = 0; i < n - 1; i++) {
        for (int j = 0; j < n - i - 1; j++) {
            if (arr[j] > arr[j + 1]) {
                int temp = arr[j];
                arr[j] = arr[j + 1];
                arr[j + 1] = temp;
            }
        }
    }
    printf("Sorted array: ");
    for (int i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    }

    return 0;
}
```

Example Output: