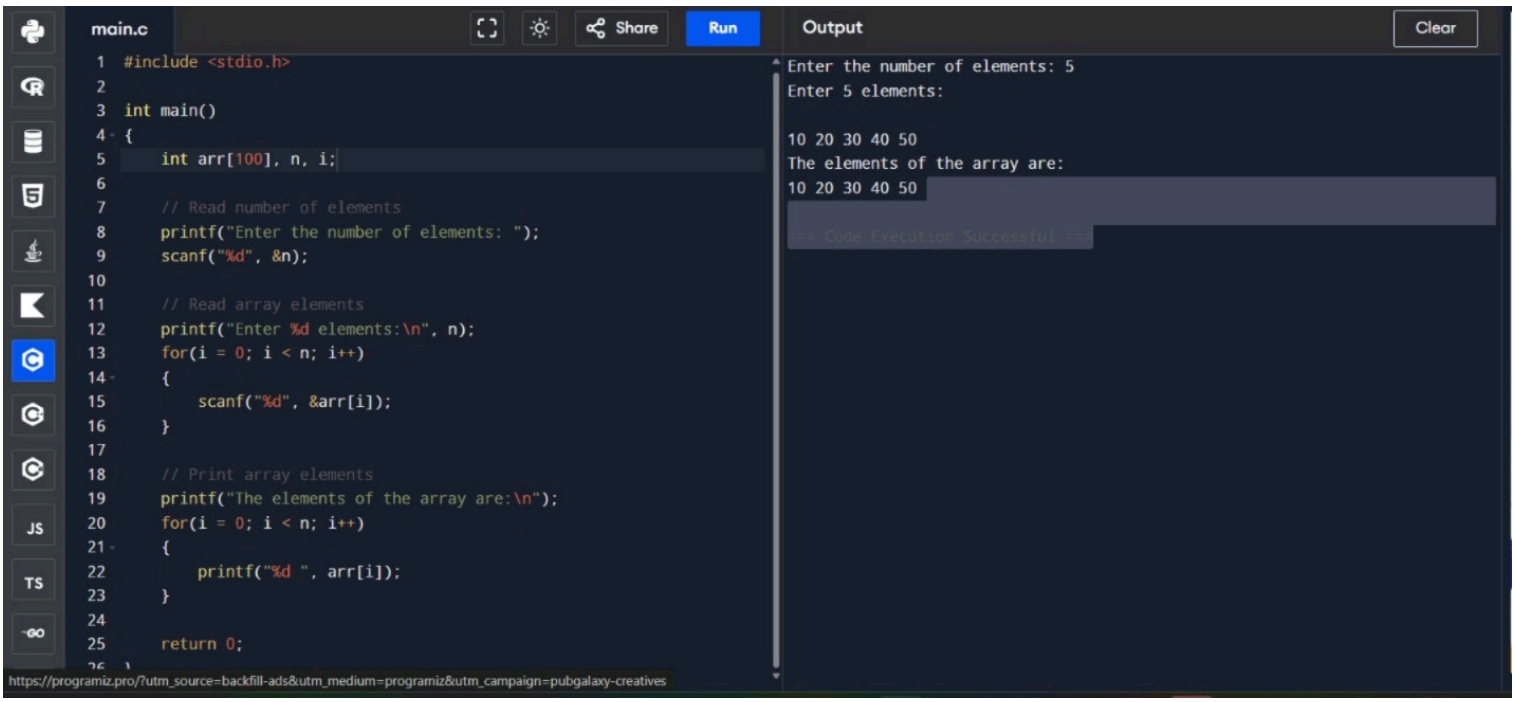

main.c
Share
Run
Output
Clear
#include <stdio.h>
int main()
{
int arr[100], n, i;
// Read number of elements
printf("Enter the number of elements: ");
scanf("%d", &n);
// Read array elements
printf("Enter %d elements:\n", n);
for(i = 0; i < n; i++)
{
scanf("%d", &arr[i]);
}
// Print array elements
printf("The elements of the array are:\n");
for(i = 0; i < n; i++)
{
printf("%d ", arr[i]);
}
return 0;
Enter the number of elements: 5
Enter 5 elements:
10 20 30 40 50
The elements of the array are:
10 20 30 40 50
=== Code Execution Successful ===
https://programiz.pro/?utm_source=backfill-ads&utm_medium=programiz&utm_campaign=pubgalaxy-creatives

main.c

Share Run

```c
#include <stdio.h>

int main() {
    int arr[100], n, i;
    int sum = 0;

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

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

    for(i = 0; i < n; i++) {
        sum = sum + arr[i];
    }

    printf("Sum of array elements = %d", sum);

    return 0;
}
```

Output

Clear

```
Enter number of elements: 4
Enter 4 elements:
5 10 15 20
Sum of array elements = 50

=== Code Execution Successful ===
```

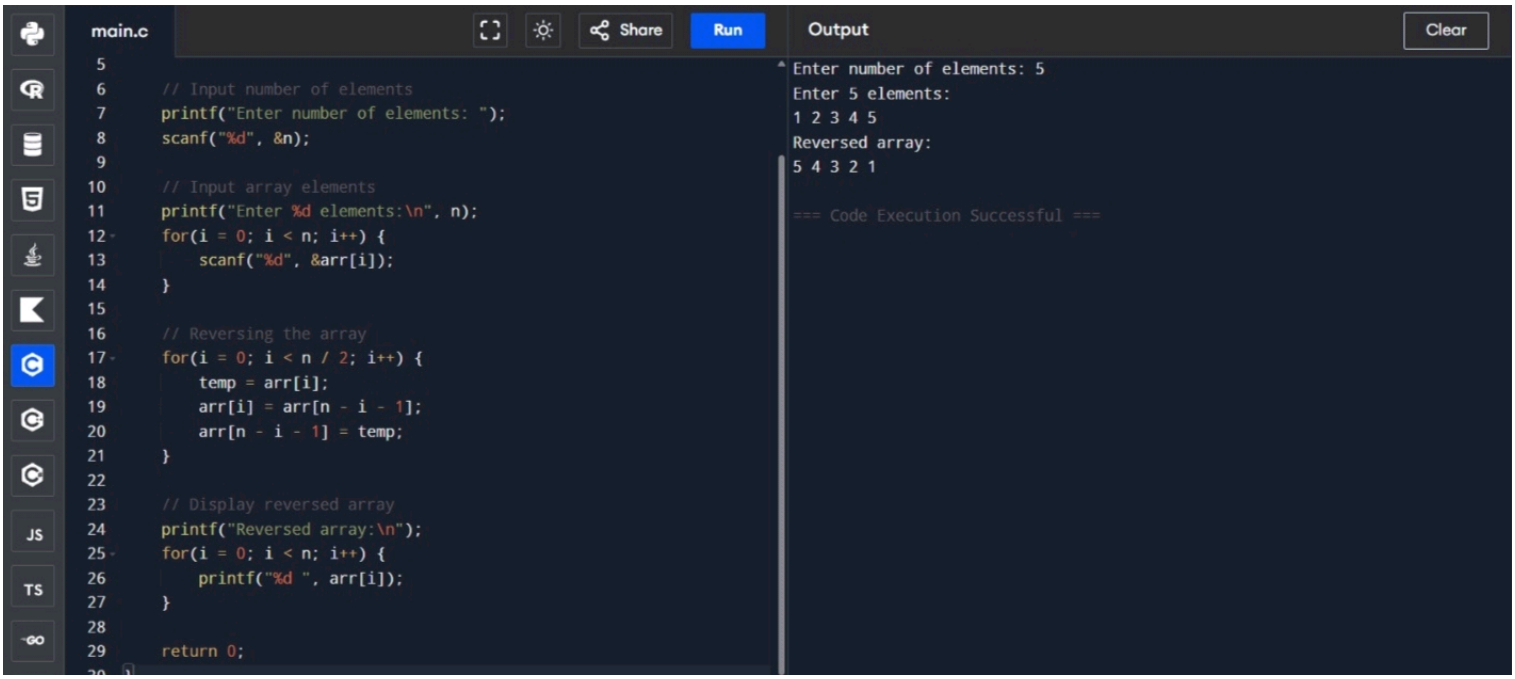
main.c

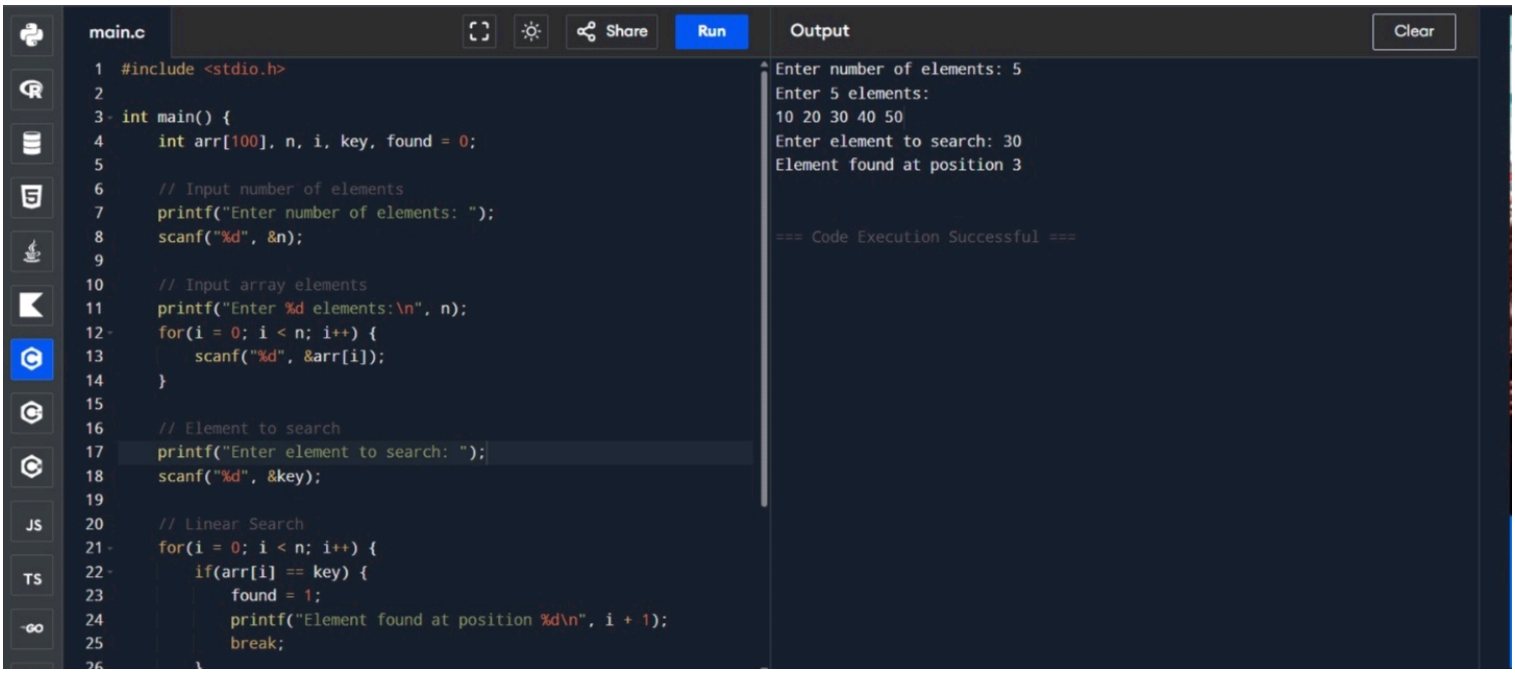
Share Run

```c
    scanf("%d", &n);

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

    // Assume first element is max and min
    max = arr[0];
    min = arr[0];

    for(i = 1; i < n; i++) {
        if(arr[i] > max) {
            max = arr[i];
        }
        if(arr[i] < min) {
            min = arr[i];
        }
    }

    printf("Maximum element = %d\n", max);
    printf("Minimum element = %d", min);

    return 0;
}
```

Output Clear

```
Enter number of elements: 5
Enter 5 elements:
12 45 7 30 20
Maximum element = 45
Minimum element = 7

=== Code Execution Successful ===
```


main.c
Share
Run
Output
Clear
// Input number of elements
printf("Enter number of elements: ");
scanf("%d", &n);
// Input array elements
printf("Enter %d elements:\n", n);
for(i = 0; i < n; i++) {
scanf("%d", &arr[i]);
}
// Reversing the array
for(i = 0; i < n / 2; i++) {
temp = arr[i];
arr[i] = arr[n - i - 1];
arr[n - i - 1] = temp;
}
// Display reversed array
printf("Reversed array:\n");
for(i = 0; i < n; i++) {
printf("%d ", arr[i]);
}
return 0;
Enter number of elements: 5
Enter 5 elements:
1 2 3 4 5
Reversed array:
5 4 3 2 1
=== Code Execution Successful ===


main.c
Share
Run
Output
Clear
#include <stdio.h>
int main() {
int arr[100], n, i, key, found = 0;
// Input number of elements
printf("Enter number of elements: ");
scanf("%d", &n);
// Input array elements
printf("Enter %d elements:\n", n);
for(i = 0; i < n; i++) {
scanf("%d", &arr[i]);
}
// Element to search
printf("Enter element to search: ");
scanf("%d", &key);
// Linear Search
for(i = 0; i < n; i++) {
if(arr[i] == key) {
found = 1;
printf("Element found at position %d\n", i + 1);
break;
Enter number of elements: 5
Enter 5 elements:
10 20 30 40 50
Enter element to search: 30
Element found at position 3
=== Code Execution Successful ===

main.c

Share Run

```c
    // Input array elements
    printf("Enter %d elements:\n", n);
    for(i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    // Sorting in ascending order (Bubble Sort)
    for(i = 0; i < n - 1; i++) {
        for(j = 0; j < n - i - 1; j++) {
            if(arr[j] > arr[j + 1]) {
                // Swap
                temp = arr[j];
                arr[j] = arr[j + 1];
                arr[j + 1] = temp;
            }
        }
    }

    // Display sorted array
    printf("Array in ascending order:\n");
    for(i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    }

    return 0;
```

Output

Clear

```
Enter number of elements: 5
Enter 5 elements:
40 10 30 20 50
Array in ascending order:
10 20 30 40 50

=== Code Execution Successful ===
```

main.c

Share Run

```c
    }

    // Input position and element to insert
    printf("Enter position to insert (1 to %d): ", n + 1);
    scanf("%d", &pos);

    printf("Enter element to insert: ");
    scanf("%d", &element);

    // Shift elements to the right
    for(i = n; i >= pos; i--) {
        arr[i] = arr[i - 1];
    }

    // Insert the element
    arr[pos - 1] = element;
    n++;

    // Display updated array
    printf("Array after insertion:\n");
    for(i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    }

    return 0;
```

Output Clear

```
Enter number of elements: 4
Enter 4 elements:
10 20 30 40
Enter position to insert (1 to 5): 2 25
Enter element to insert: Array after insertion:
10 25 20 30 40

=== Code Execution Successful ===
```

main.c

Share Run

```c
#include <stdio.h>

int main() {
    int arr[100], n, i, pos;

    // Input number of elements
    printf("Enter number of elements: ");
    scanf("%d", &n);

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

    // Input position to delete
    printf("Enter position to delete (1 to %d): ", n);
    scanf("%d", &pos);

    // Shift elements to the left
    for(i = pos - 1; i < n - 1; i++) {
        arr[i] = arr[i + 1];
    }

    n--;  // Reduce array size
```

Output Clear

```
Enter number of elements: 5
Enter 5 elements:
10 20 30 40 50
Enter position to delete (1 to 5): 3
Array after deletion:
10 20 40 50

=== Code Execution Successful ===
```

main.c

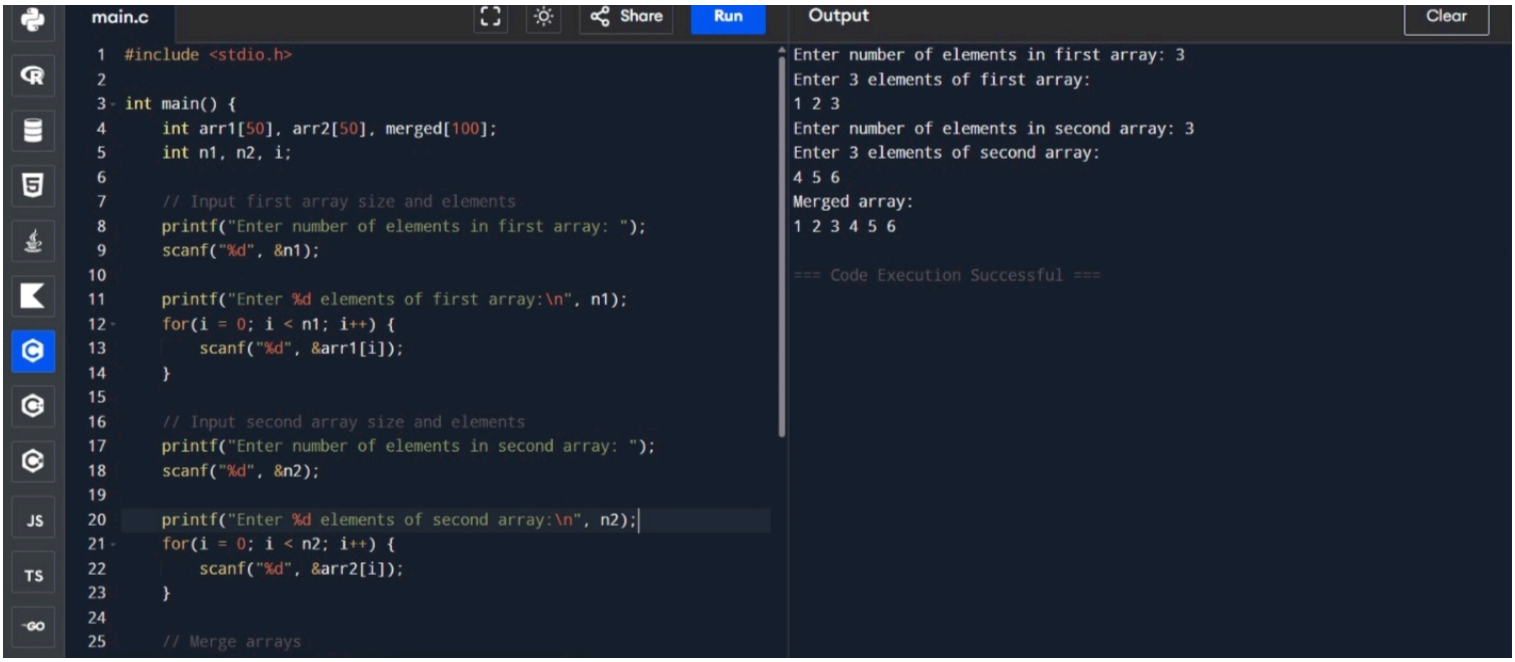
Share Run

```c
#include <stdio.h>

int main() {
    int arr[100], n, i, key, count = 0;

    // Input number of elements
    printf("Enter number of elements: ");
    scanf("%d", &n);

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

    // Element to find frequency
    printf("Enter element to find frequency: ");
    scanf("%d", &key);

    // Count frequency
    for(i = 0; i < n; i++) {
        if(arr[i] == key) {
            count++;
        }
    }
```

Output

Clear

```
Enter number of elements: 6
Enter 6 elements:
1 2 2 3 1 2
Enter element to find frequency: 3
Frequency of 3 = 1 times


=== Code Execution Successful ===
```


main.c
Share
Run
Output
Clear
#include <stdio.h>
int main() {
int arr1[50], arr2[50], merged[100];
int n1, n2, i;
// Input first array size and elements
printf("Enter number of elements in first array: ");
scanf("%d", &n1);
printf("Enter %d elements of first array:\n", n1);
for(i = 0; i < n1; i++) {
scanf("%d", &arr1[i]);
}
// Input second array size and elements
printf("Enter number of elements in second array: ");
scanf("%d", &n2);
printf("Enter %d elements of second array:\n", n2);
for(i = 0; i < n2; i++) {
scanf("%d", &arr2[i]);
}
// Merge arrays
Enter number of elements in first array: 3
Enter 3 elements of first array:
1 2 3
Enter number of elements in second array: 3
Enter 3 elements of second array:
4 5 6
Merged array:
1 2 3 4 5 6
=== Code Execution Successful ===