```c
#include <stdio.h>
int main() {
    int n;
    printf("Enter the size of the array: ");
    scanf("%d", &n);

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

    int max = arr[0];
    for (int i = 1; i < n; i++) {
        if (arr[i] > max) {
            max = arr[i];
        }
    }
     printf("The largest number in the array is %d\n", max);
     printf("\nregistration number:192211541");
    return 0;
}
```

```
C:\Users\LOKESH\Docum
Enter the size of the array: 5
Enter the elements of the array:
 12
56
34
78
100
The largest number in the array is 100

registration number:192211541
--------------------------------
Process exited after 14.47 seconds with return
 value 0
Press any key to continue . . .
```

[*] duplicate element .c | even or odd in array.c | Untitled7 | reversa array.c

```c
#include <stdio.h>
#define MAX_SIZE 100
int main()
{
    int arr[MAX_SIZE];
    int size, i, j, temp;
    printf("Enter size of the array: ");
    scanf("%d", &size);
    printf("Enter elements of the array:\n");
    for(i=0; i<size; i++)
    {
        scanf("%d", &arr[i]);
    }
    for(i=0; i<size; i++)
    {
        for(j=i+1; j<size; j++)
        {
            if(arr[i] < arr[j])
            {
                temp = arr[i];
                arr[i] = arr[j];
                arr[j] = temp;
            }
        }
    }
    printf("\nArray in descending order: ");
    for(i=0; i<size; i++)
    {
        printf("%d ", arr[i]);
    }
    printf("\nRegistration Number:192211541");
    r
}
```

```
public int __cdecl printf (const char * __restrict__ _Format, ...)
```

C:\Users\LOKESH\Documents'

```
Enter size of the array: 5
Enter elements of the array:
234
780
130
56
90

Array in descending order: 780 234 130 90 56
Registration Number:192211541
--------------------------------
Process exited after 17.87 seconds with return value
0
Press any key to continue . . .
```

```c
#include <stdio.h>

int main() {
    int size;
    printf("Enter the size of the array: ");
    scanf("%d", &size);

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

    printf("The original array is: ");
    for (int i = 0; i < size; i++) {
        printf("%d ", arr[i]);
    }

    int temp;
    for (int i = 0, j = size - 1; i < j; i++, j--) {
        temp = arr[i];
        arr[i] = arr[j];
        arr[j] = temp;
    }

    printf("\nThe reversed array is: ");
    for (int i = 0; i < size; i++) {
        printf("%d ", arr[i]);
    }
public int __cdecl printf (const char * __restrict__ _Format, ...)
{
    printf("\nenter the regester number 192211541");
```

```
C:\Users\LOKESH\Documents'
Enter the size of the array: 5
Enter 5 elements in the array:
7
8
9
4
6
The original array is: 7 8 9 4 6
The reversed array is: 6 4 9 8 7
enter the regester number 192211541
--------------------------------
Process exited after 6.322 seconds with return value
0
Press any key to continue . . .
```

```c
#include <stdio.h>

#define MAX_SIZE 100

int main()
{
    int arr[MAX_SIZE], even[MAX_SIZE], odd
    int size, even_size = 0, odd_size = 0,

    printf("Enter size of the array: ");
    scanf("%d", &size);

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

    for(i=0; i<size; i++)
    {
        if(arr[i] % 2 == 0)
        {
            even[even_size] = arr[i];
            even_size++;
        }
        else
        {
            odd[odd_size] = arr[i];
            odd_size++;
        }
    }
    public int __cdecl printf (const char * __restrict__ _Format, ...)
    for(i=0; i<even_size; i++)
```

```
C:\Users\LOKESH\Documents'
Enter size of the array: 5
Enter elements of the array:
3
6
42
1
6

Even elements array: 6 42 6
Odd elements array: 3 1
enter the register number 192211541
--------------------------------
Process exited after 9.447 seconds with return value 0

Press any key to continue . . .
```

```c
#include <stdio.h>
#define MAX_SIZE 100
int main()
{
    int arr[MAX_SIZE];
    int size, i, j, k;
    printf("Enter size of the array: ");
    scanf("%d", &size);
    printf("Enter elements of the array:\n");
    for(i=0; i<size; i++)
    {
        scanf("%d", &arr[i]);
    }
    for(i=0; i<size; i++)
    {
        for(j=i+1; j<size; j++)
        {
            if(arr[i] == arr[j])
            {
                for(k=j; k<size; k++)
                {
                    arr[k] = arr[k+1];
                }
                size--;
                j--;
            }
        }
    }
    printf("\nArray with duplicates removed: ");
    for(i=0; i<size; i++)
    {
        printf("%d ", arr[i]);
    }

    return 0;
}
```

```
C:\Users\LOKESH\Documents'
Enter size of the array: 5
Enter elements of the array:
1
2
3
5
4

Array with duplicates removed: 1 2 3 5 4
--------------------------------
Process exited after 8.448 seconds with return value
0
Press any key to continue . . .
```

```c
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int i,n,large1,large2;
    int a[10];
    printf("enter the size of the element \n");
    scanf("%d",&n);
    printf("enter the array..\n");

    for(i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
    large1=a[0];
    for(i=0;i<n;i++)
    {
        if(a[i]>large1)

         large1=a[i];
    }
    large2=a[0];
```

```
public int __cdecl printf (const char * __restrict__ _Format, ...)
```

```
C:\Users\LOKESH\Docum
enter the size of the element
5
enter the array..
2
4
5
8
7
largest number is 8
second largest number is 7
registration number:192211541
--------------------------------
Process exited after 9.379 seconds with return
 value 0
Press any key to continue . . .
```

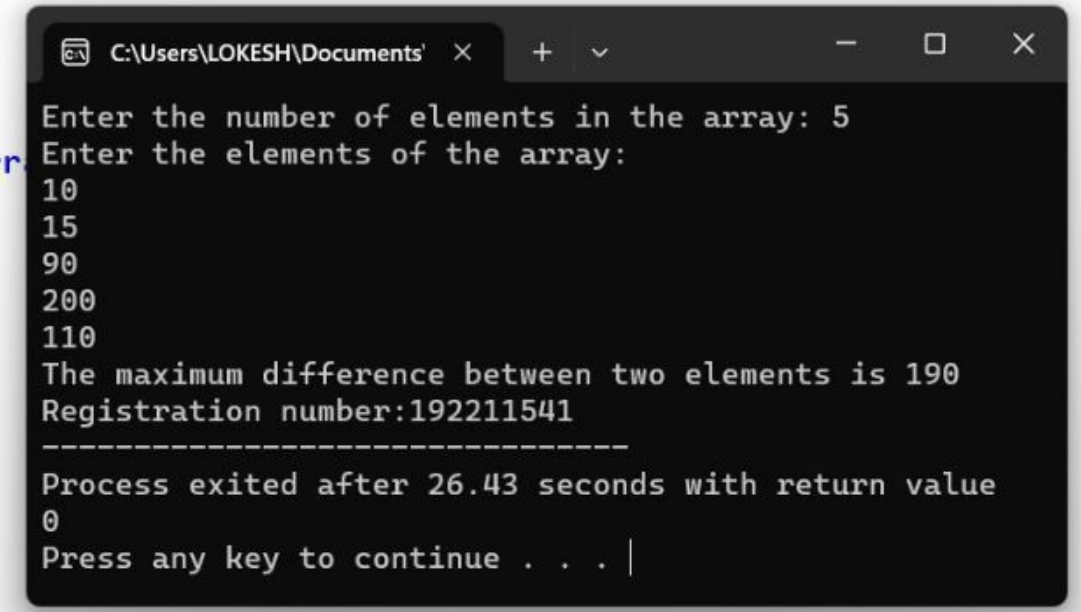
```c
//C Program To Find Maximum Difference Between Two Elements in an Array
#include <stdio.h>

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

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

    int max_diff = arr[1] - arr[0];
    int min_element = arr[0];

    for (int i = 1; i < n; i++) {
        if (arr[i] - min_element > max_diff) {
            max_diff = arr[i] - min_element;
        }
        if (arr[i] < min_element) {
            min_element = arr[i];
        }
```



```c
#include <stdio.h>

int main() {
    int arr[50], n, i, largest, second_largest, smallest, second_smallest;

    printf("Enter the size of the array: ");
    scanf("%d", &n);

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

    largest = arr[0];
    second_largest = arr[0];
    smallest = arr[0];
    second_smallest = arr[0];

    for (i = 0; i < n; i++) {
        if (arr[i] > largest) {
            second_largest = largest;
            largest = arr[i];
        } else if (arr[i] > second_largest && arr[i] != largest) {
            second_largest = arr[i];
        }

        if (arr[i] < smallest) {
            second_smallest = smallest;
            smallest = arr[i];
        } else if (arr[i] < second_smallest && arr[i] != smallest) {
            second_smallest = arr[i];
        }
    }


    printf("The second largest element in the array is: %d\n", second_largest);

    printf("The second smallest element in the array is: %d\n", second_smallest);

    printf("registration number:192211541");

}
```

```
public int __cdecl printf (const char * __restrict__ _Format, ...)
```

```
C:\Users\LOKESH\Documents
Enter the size of the array: 3
Enter the elements of the array: 5
6
4
The second largest element in the array is: 5
The second smallest element in the array is: 5
registration number:192211541
--------------------------------
Process exited after 6.716 seconds with return value 0

Press any key to continue . . .
```