

```

1 #include <stdio.h>
2 int main() {
3     int n;
4     printf("Enter the size of the array: ");
5     scanf("%d", &n);
6
7     int arr[n];
8     printf("Enter the elements of the array:\n ");
9     for (int i = 0; i < n; i++) {
10         scanf("%d", &arr[i]);
11     }
12
13     int max = arr[0];
14     for (int i = 1; i < n; i++) {
15         if (arr[i] > max) {
16             max = arr[i];
17         }
18     }
19     printf("The largest number in the array is %d\n", max);
20     printf("\nregistration number:192211541");
21     return 0;
22 }

```

```

C:\Users\LOKESH\Docum x + v - □ ×
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 x even or odd in array.c x Untitled7 x reversa array.c x

```
1  #include <stdio.h>
2  #define MAX_SIZE 100
3  int main()
4  {
5      int arr[MAX_SIZE];
6      int size, i, j, temp;
7      printf("Enter size of the array: ");
8      scanf("%d", &size);
9      printf("Enter elements of the array:\n");
10     for(i=0; i<size; i++)
11     {
12         scanf("%d", &arr[i]);
13     }
14     for(i=0; i<size; i++)
15     {
16         for(j=i+1; j<size; j++)
17         {
18             if(arr[i] < arr[j])
19             {
20                 temp = arr[i];
21                 arr[i] = arr[j];
22                 arr[j] = temp;
23             }
24         }
25     }
26     printf("\nArray in descending order: ");
27     for(i=0; i<size; i++)
28     {
29         printf("%d ", arr[i]);
30     }
31     printf("\nRegistration Number:192211541");
32     public int __cdecl printf (const char * __restrict__ _Format, ...)
33 }
```

C:\Users\LOKESH\Documents' x + v - □ ×

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 . . . |

```

1  #include <stdio.h>
2
3  int main() {
4      int size;
5      printf("Enter the size of the array: ");
6      scanf("%d", &size);
7
8      int arr[size];
9      printf("Enter %d elements in the array:\n", size);
10     for (int i = 0; i < size; i++) {
11         scanf("%d", &arr[i]);
12     }
13
14     printf("The original array is: ");
15     for (int i = 0; i < size; i++) {
16         printf("%d ", arr[i]);
17     }
18
19     int temp;
20     for (int i = 0, j = size - 1; i < j; i++, j--) {
21         temp = arr[i];
22         arr[i] = arr[j];
23         arr[j] = temp;
24     }
25
26     printf("\nThe reversed array is: ");
27     for (int i = 0; i < size; i++) {
28         printf("%d ", arr[i]);
29     }
30     {
31         printf("\nenter the register number 192211541"):

```

```

C:\Users\LOKESH\Documents' x + v - □ x
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 register number 192211541
-----
Process exited after 6.322 seconds with return value
0
Press any key to continue . . . |

```



```

1  #include <stdio.h>
2
3  #define MAX_SIZE 100
4
5  int main()
6  {
7      int arr[MAX_SIZE], even[MAX_SIZE], odd[MAX_SIZE];
8      int size, even_size = 0, odd_size = 0;
9
10     printf("Enter size of the array: ");
11     scanf("%d", &size);
12
13     printf("Enter elements of the array:\n");
14     for(i=0; i<size; i++)
15     {
16         scanf("%d", &arr[i]);
17     }
18
19     for(i=0; i<size; i++)
20     {
21         if(arr[i] % 2 == 0)
22         {
23             even[even_size] = arr[i];
24             even_size++;
25         }
26         else
27         {
28             odd[odd_size] = arr[i];
29             odd_size++;
30         }
31     }
32
33     printf("Even elements array: ");
34     for(i=0; i<even_size; i++)

```

```

C:\Users\LOKESH\Documents' x + v - □ x
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 . . . |

```

```

1 #include <stdio.h>
2 #define MAX_SIZE 100
3 int main()
4 {
5     int arr[MAX_SIZE];
6     int size, i, j, k;
7     printf("Enter size of the array: ");
8     scanf("%d", &size);
9     printf("Enter elements of the array:\n");
10    for(i=0; i<size; i++)
11    {
12        scanf("%d", &arr[i]);
13    }
14    for(i=0; i<size; i++)
15    {
16        for(j=i+1; j<size; j++)
17        {
18            if(arr[i] == arr[j])
19            {
20                for(k=j; k<size; k++)
21                {
22                    arr[k] = arr[k+1];
23                }
24                size--;
25                j--;
26            }
27        }
28    }
29    printf("\nArray with duplicates removed: ");
30    for(i=0; i<size; i++)
31    {
32        printf("%d ", arr[i]);
33    }
34
35    return 0;
36 }

```

```

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 . . . |

```

```

1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6      int i,n,large1,large2;
7      int a[10];
8      printf("enter the size of the element \n");
9      scanf("%d",&n);
10     printf("enter the array..\n");
11
12     for(i=0;i<n;i++)
13     {
14         scanf("%d",&a[i]);
15     }
16     large1=a[0];
17     for(i=0;i<n;i++)
18     {
19         if(a[i]>large1)
20
21             large1=a[i];
22     }
23     large2=a[0];

```

```

C:\Users\LOKESH\Docum x + - □ ×
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 . . . |

```

```

1 //C Program To Find Maximum Difference Between Two Elements in an Array
2 #include <stdio.h>
3
4 int main() {
5     int n;
6     printf("Enter the number of elements in the array:");
7     scanf("%d", &n);
8
9     int arr[n];
10    printf("Enter the elements of the array:\n");
11    for (int i = 0; i < n; i++) {
12        scanf("%d", &arr[i]);
13    }
14
15    int max_diff = arr[1] - arr[0];
16    int min_element = arr[0];
17
18    for (int i = 1; i < n; i++) {
19        if (arr[i] - min_element > max_diff) {
20            max_diff = arr[i] - min_element;
21        }
22        if (arr[i] < min_element) {
23            min_element = arr[i];
24        }
25    }
26 }

```

```

C:\Users\LOKESH\Documents
Enter the number of elements in the array: 5
Enter the elements of the array:
10
15
90
200
110
The maximum difference between two elements is 190
Registration number:192211541
-----
Process exited after 26.43 seconds with return value
0
Press any key to continue . . .

```



```

1 #include <stdio.h>
2
3 int main() {
4     int arr[50], n, i, largest, second_largest, smallest, second_smallest;
5
6     printf("Enter the size of the array: ");
7     scanf("%d", &n);
8
9     printf("Enter the elements of the array: ");
10    for (i = 0; i < n; i++) {
11        scanf("%d", &arr[i]);
12    }
13
14    largest = arr[0];
15    second_largest = arr[0];
16    smallest = arr[0];
17    second_smallest = arr[0];
18
19    for (i = 0; i < n; i++) {
20        if (arr[i] > largest) {
21            second_largest = largest;
22            largest = arr[i];
23        } else if (arr[i] > second_largest && arr[i] != largest) {
24            second_largest = arr[i];
25        }
26
27        if (arr[i] < smallest) {
28            second_smallest = smallest;
29            smallest = arr[i];
30        } else if (arr[i] < second_smallest && arr[i] != smallest) {
31            second_smallest = arr[i];
32        }
33    }
34
35
36    printf("The second largest element in the array is: %d\n", second_largest);
37
38    printf("The second smallest element in the array is: %d\n", second_smallest);
39
40    printf("registration number:192211541");
41
42 }

```

```

C:\Users\LOKESH\Documents' x + v - □ x
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 . . . |

```