3. Write a program in C to find the sum of all elements of the array.

Test Data :

Input the number of elements to be stored in the array :3

Input 3 elements in the array :

element - 0 : 2

element - 1 : 5

element - 2 : 8

Expected Output :

Sum of all elements stored in the array is : 15

10. Write a program in C to separate odd and even integers into separate arrays.

Test Data :

Input the number of elements to be stored in the array :5

Input 5 elements in the array :

element - 0 : 25

element - 1 : 47

element - 2 : 42

element - 3 : 56

element - 4 : 32

Expected Output :

The Even elements are :

42 56 32

The Odd elements are :

25 47

2. Write a program in C to read n number of values in an array and display them in reverse order.

Test Data :

Input the number of elements to store in the array :3

Input 3 number of elements in the array :

element - 0 : 2

element - 1 : 5

element - 2 : 7

Expected Output :

The values store into the array are :

2 5 7

The values store into the array in reverse are :

7 5 2

8. Write a program in C to count the frequency of each element of an array.

Test Data :

Input the number of elements to be stored in the array :3

Input 3 elements in the array :

element - 0 : 25

element - 1 : 12

element - 2 : 43

Expected Output :

The frequency of all elements of an array :

25 occurs 1 times

12 occurs 1 times

43 occurs 1 times

1. Write a program in C to store elements in an array and print them.

Test Data :

Input 10 elements in the array :

element - 0 : 1

element - 1 : 1

element - 2 : 2

.....

Expected Output :

Elements in array are: 1 1 2 3 4 5 6 7 8 9

4. Write a program in C to copy the elements of one array into another array.

Test Data :

Input the number of elements to be stored in the array :3

Input 3 elements in the array :

element - 0 : 15

element - 1 : 10

element - 2 : 12

Expected Output :

The elements stored in the first array are :

15 10 12

The elements copied into the second array are :

15 10 12

5. Write a program in C to count the total number of duplicate elements in an array.
Test Data :
Input the number of elements to be stored in the array :3
Input 3 elements in the array :
element - 0 : 5
element - 1 : 1
element - 2 : 1
Expected Output :
Total number of duplicate elements found in the array is : 1

6. Write a program in C to print all unique elements in an array.

Test Data :

Print all unique elements of an array:

Input the number of elements to be stored in the array: 4

Input 4 elements in the array :

element - 0 : 3

element - 1 : 2

element - 2 : 2

element - 3 : 5

Expected Output :

The unique elements found in the array are:

3 5

9. Write a program in C to find the maximum and minimum elements in an array.

Test Data :

Input the number of elements to be stored in the array :3

Input 3 elements in the array :

element - 0 : 45

element - 1 : 25

element - 2 : 21

Expected Output :

Maximum element is : 45

Minimum element is : 21

7. Write a program in C to merge two arrays of the same size sorted in descending order.

Test Data :

Input the number of elements to be stored in the first array :3

Input 3 elements in the array :

element - 0 : 1

element - 1 : 2

element - 2 : 3

Input the number of elements to be stored in the second array :3

Input 3 elements in the array :

element - 0 : 1

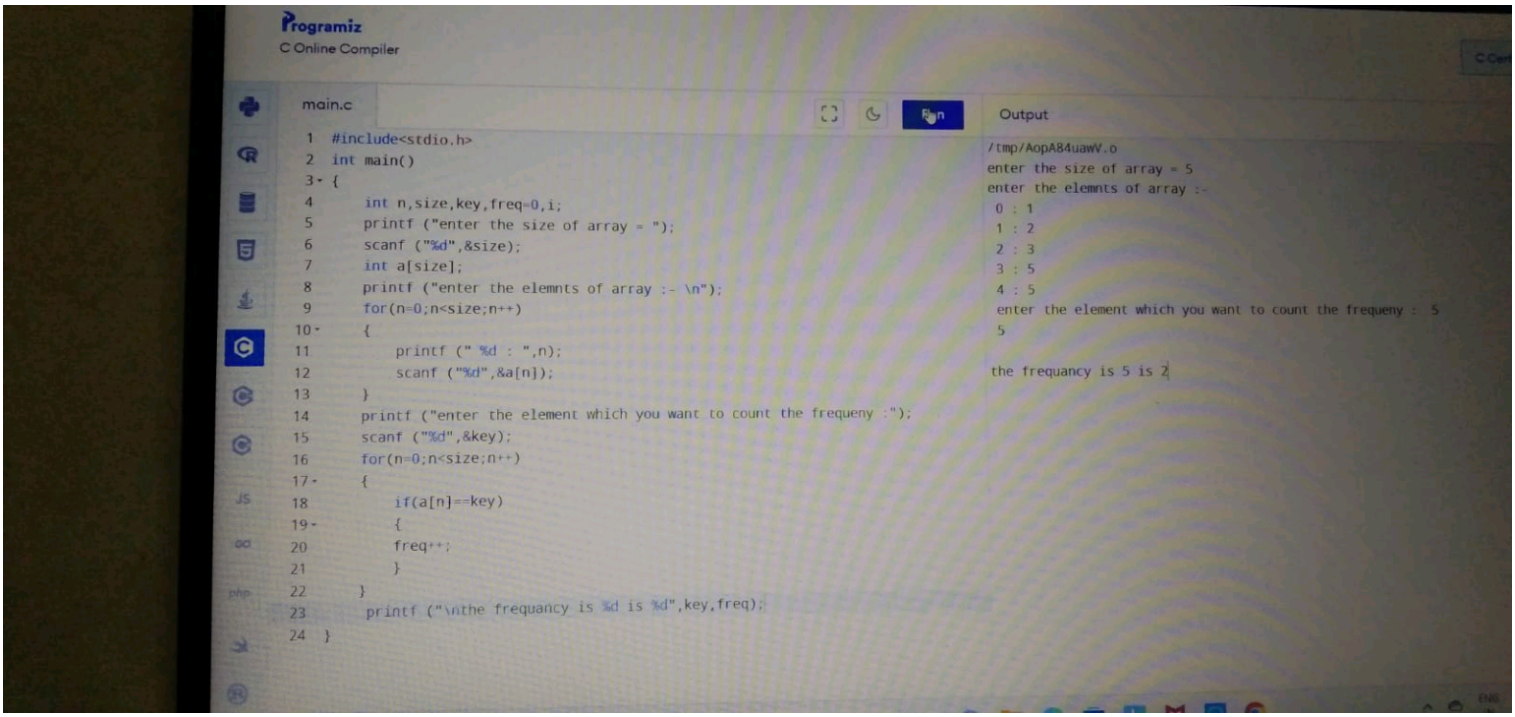
element - 1 : 2

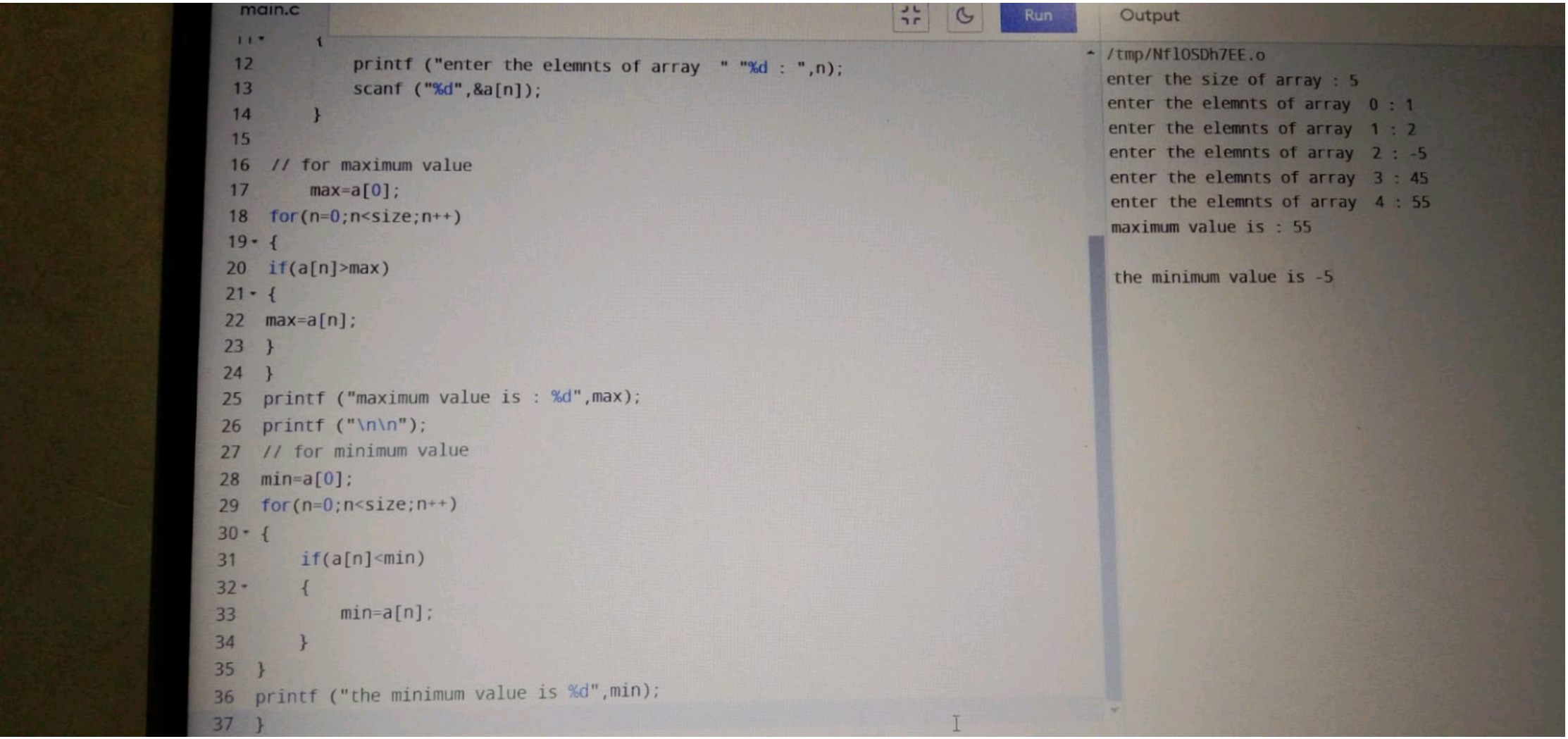
element - 2 : 3

Expected Output :

The merged array in decending order is :

3 3 2 2 1 1


Programiz
C Online Compiler
main.c
Run
Output
#include<stdio.h>
int main()
{
int n,size,key,freq=0,i;
printf ("enter the size of array = ");
scanf ("%d",&size);
int a[size];
printf ("enter the elemnts of array :- \n");
for(n=0;n<size;n++)
{
printf (" %d : ",n);
scanf ("%d",&a[n]);
}
printf ("enter the element which you want to count the frequeny :");
scanf ("%d",&key);
for(n=0;n<size;n++)
{
if(a[n]==key)
{
freq++;
}
}
printf ("\nthe frequancy is %d is %d",key,freq);
}
/tmp/AopA84uaWV.o
enter the size of array = 5
enter the elemnts of array :-
0 : 1
1 : 2
2 : 3
3 : 5
4 : 5
enter the element which you want to count the frequeny : 5
5
the frequancy is 5 is 2


main.c
Run
Output
printf ("enter the elemnts of array " "%d : ",n);
scanf ("%d",&a[n]);
// for maximum value
max=a[0];
for(n=0;n<size;n++)
{
if(a[n]>max)
{
max=a[n];
}
}
printf ("maximum value is : %d",max);
printf ("\n\n");
// for minimum value
min=a[0];
for(n=0;n<size;n++)
{
if(a[n]<min)
{
min=a[n];
}
}
printf ("the minimum value is %d",min);
}
/tmp/NflOSDh7EE.o
enter the size of array : 5
enter the elemnts of array 0 : 1
enter the elemnts of array 1 : 2
enter the elemnts of array 2 : -5
enter the elemnts of array 3 : 45
enter the elemnts of array 4 : 55
maximum value is : 55
the minimum value is -5

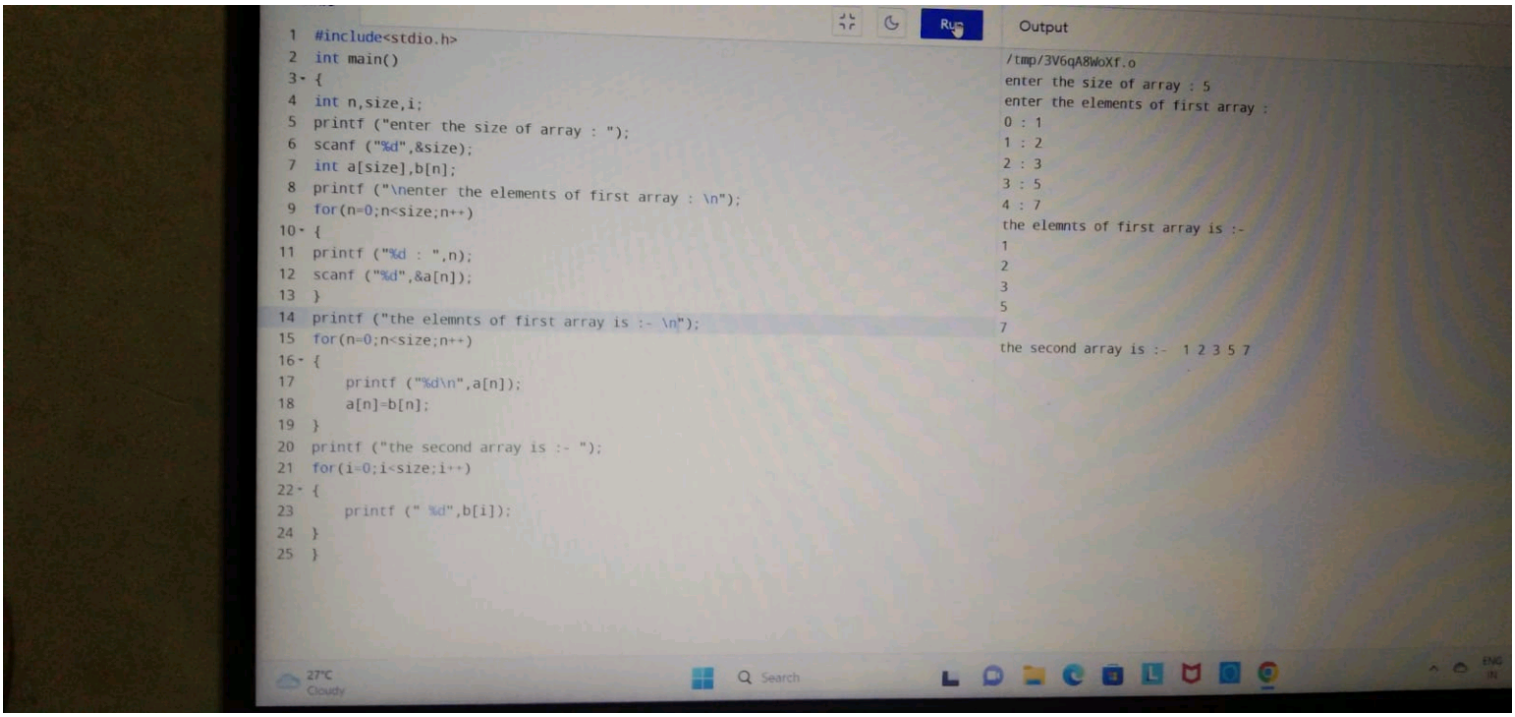
main.c

Run

Output

```c
#include<stdio.h>
int main()
{
int n,size,i=0;
printf ("enter the size of array : ");
scanf ("%d",&size);
int a[size];
printf ("\nenter the elements of array : \n");
for(n=0;n<size;n++)
{
printf ("%d : ",n);
scanf ("%d",&a[n]);
}
for(n=0;n<size;n++)
{
    i=i+a[n];
}
printf ("\nsum of elements of array is = %d",i);
}
```

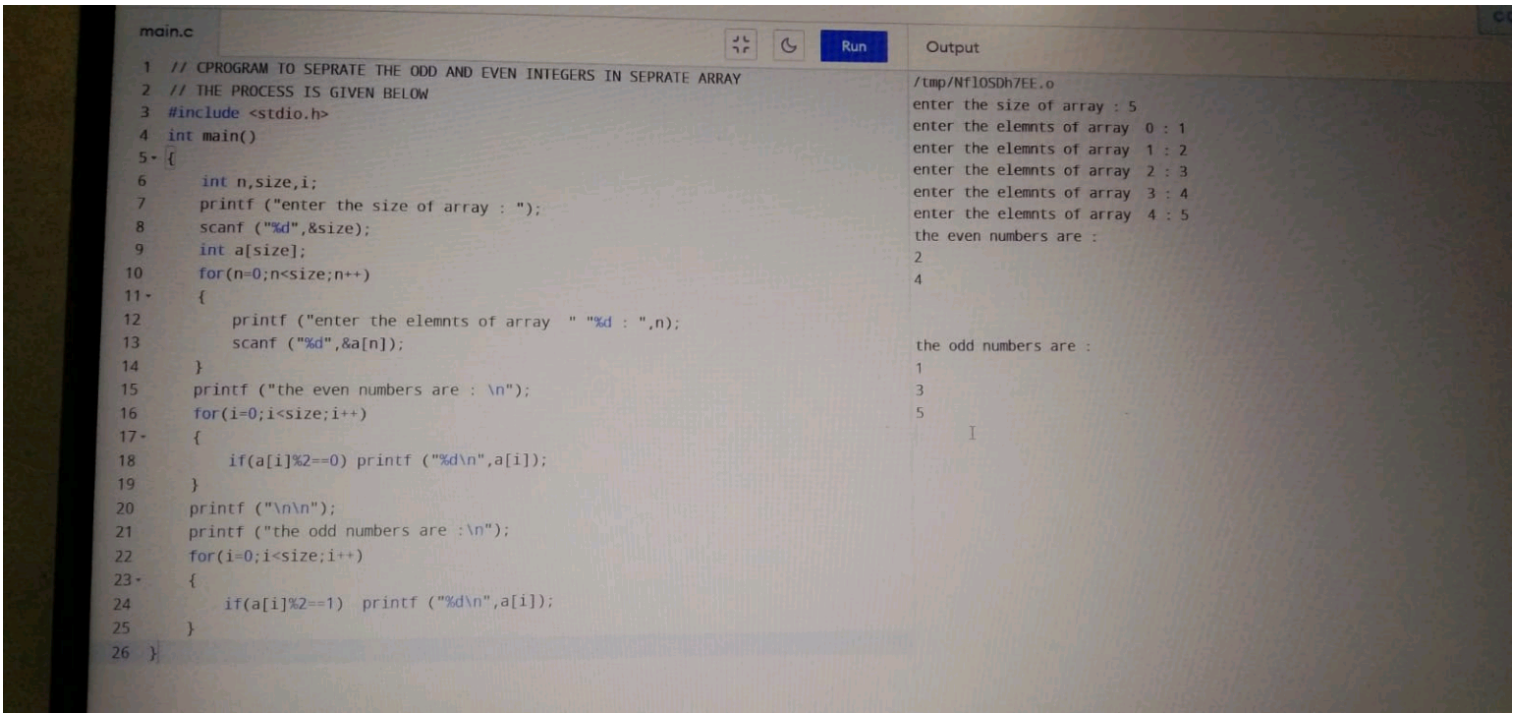
```
/tmp/3V6qA8WoXf.o
enter the size of array : 5
enter the elements of array :
0 : 1
1 : 1
2 : 1
3 : 1
4 : 1
sum of elements of array is = 5
```


Run
Output
#include<stdio.h>
int main()
{
int n,size,i;
printf ("enter the size of array : ");
scanf ("%d",&size);
int a[size],b[n];
printf ("\nenter the elements of first array : \n");
for(n=0;n<size;n++)
{
printf ("%d : ",n);
scanf ("%d",&a[n]);
}
printf ("the elemnts of first array is :- \n");
for(n=0;n<size;n++)
{
printf ("%d\n",a[n]);
a[n]=b[n];
}
printf ("the second array is :- ");
for(i=0;i<size;i++)
{
printf (" %d",b[i]);
}
}
/tmp/3V6qA8WoXf.o
enter the size of array : 5
enter the elements of first array :
0 : 1
1 : 2
2 : 3
3 : 5
4 : 7
the elemnts of first array is :-
1
2
3
5
7
the second array is :- 1 2 3 5 7
27°C
Cloudy
Search

```
11      {
12          printf ("enter the elemnts of array  " "%d : ",n);
13          scanf ("%d",&a[n]);
14      }
15
16  // for maximum value
17      max=a[0];
18  for(n=0;n<size;n++)
19  {
20  if(a[n]>max)
21  {
22  max=a[n];
23  }
24  }
25  printf ("maximum value is : %d",max);
26  printf ("\n\n");
27  // for minimum value
28  min=a[0];
29  for(n=0;n<size;n++)
30  {
31      if(a[n]<min)
32      {
33          min=a[n];
34      }
35  }
36  printf ("the minimum value is %d",min);
37  }
```

```
/tmp/NflOSDh7EE.o
enter the size of array : 5
enter the elemnts of array  0 : 1
enter the elemnts of array  1 : 2
enter the elemnts of array  2 : -5
enter the elemnts of array  3 : 45
enter the elemnts of array  4 : 55
maximum value is : 55

the minimum value is -5
```



main.c

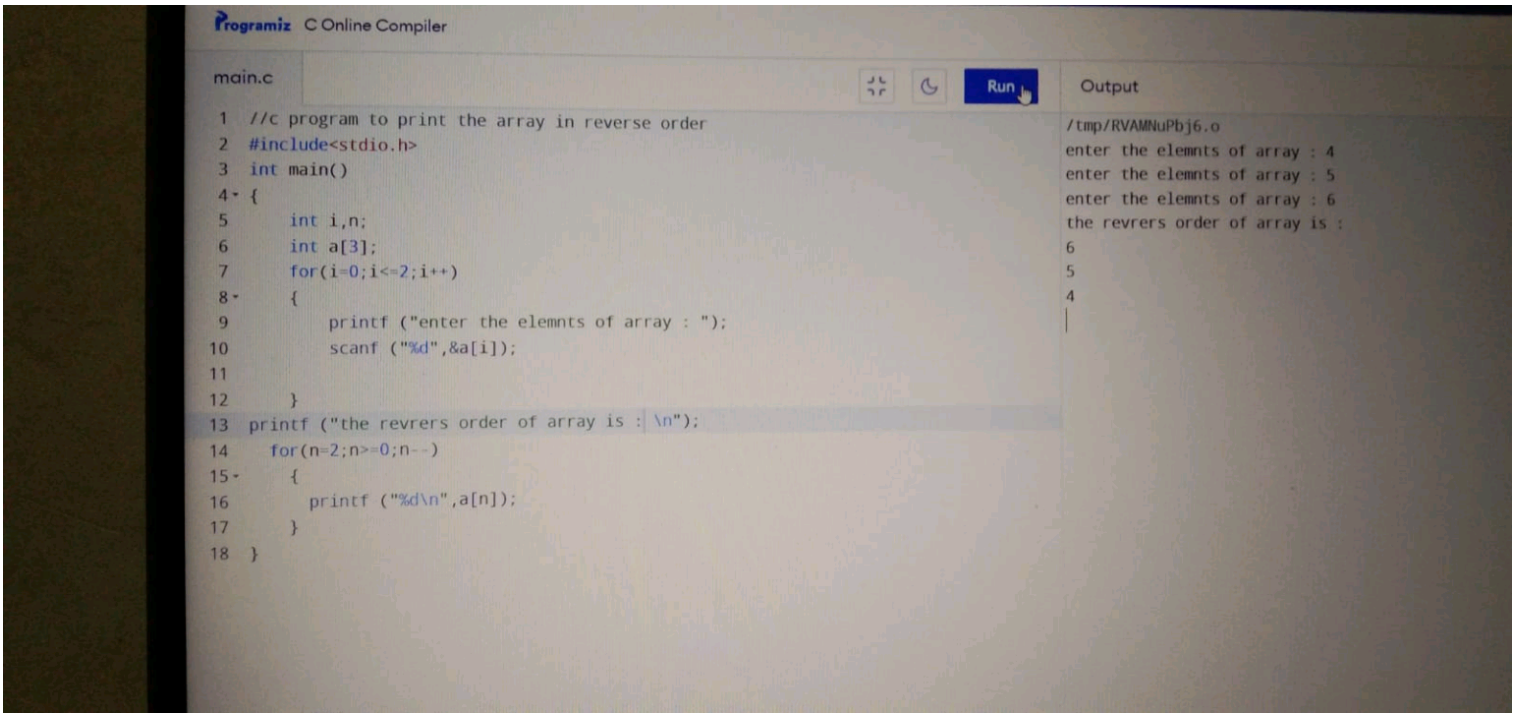
Run

Output

```
// CPROGRAM TO SEPRATE THE ODD AND EVEN INTEGERS IN SEPRATE ARRAY
// THE PROCESS IS GIVEN BELOW
#include <stdio.h>
int main()
{
    int n,size,i;
    printf ("enter the size of array : ");
    scanf ("%d",&size);
    int a[size];
    for(n=0;n<size;n++)
    {
        printf ("enter the elemnts of array  " "%d : ",n);
        scanf ("%d",&a[n]);
    }
    printf ("the even numbers are : \n");
    for(i=0;i<size;i++)
    {
        if(a[i]%2==0) printf ("%d\n",a[i]);
    }
    printf ("\n\n");
    printf ("the odd numbers are :\n");
    for(i=0;i<size;i++)
    {
        if(a[i]%2==1)  printf ("%d\n",a[i]);
    }
}
```

```
/tmp/NflOSDh7EE.o
enter the size of array : 5
enter the elemnts of array  0 : 1
enter the elemnts of array  1 : 2
enter the elemnts of array  2 : 3
enter the elemnts of array  3 : 4
enter the elemnts of array  4 : 5
the even numbers are :
2
4


the odd numbers are :
1
3
5
```


Programiz C Online Compiler
main.c
Run
Output
//c program to print the array in reverse order
#include<stdio.h>
int main()
{
int i,n;
int a[3];
for(i=0;i<=2;i++)
{
printf ("enter the elemnts of array : ");
scanf ("%d",&a[i]);
}
printf ("the revrers order of array is : \n");
for(n=2;n>=0;n--)
{
printf ("%d\n",a[n]);
}
}
/tmp/RVAMNuPbj6.o
enter the elemnts of array : 4
enter the elemnts of array : 5
enter the elemnts of array : 6
the revrers order of array is :
6
5
4