

```
PS C:\Lab> gcc 1.c ; ./a
```

```
Enter the number upto which the square of even numbers  
and cube of odd numbers to be printed : 20
```

```
1  
8  
9  
64  
25  
216  
49  
512  
81  
1000  
121  
1728  
169  
2744  
225  
4096  
289  
5832  
361  
8000  
PS C:\Lab> 
```

```
PS C:\Lab> gcc 9.c ; ./a
```

```
Input the number of elements to be stored in the array : 6
```

```
Input 6 elements in the array :
```

```
element - 1 : 34  
element - 2 : 23  
element - 3 : 34  
element - 4 : 56  
element - 5 : 34  
element - 6 : 34
```

```
Total number of duplicate elements found in the array: 3
```

```
PS C:\Lab> 
```

```
PS C:\Lab> gcc 6.c ; ./a
```

```
      *
     * *
    * * *
   * * * *
  * * * * *
```

```
PS C:\Lab> 
```

```
PS C:\Lab> gcc 5.c ; ./a
```

Input numbers of rows : 6

```
*
* *
* * *
* * * *
* * * * *
* * * * * *
```

```
PS C:\Lab> 
```

```
PS C:\Lab> gcc 3.c ; ./a
```

Input the values of three numbers : 456 687 203

1st Number = 456, 2nd Number = 687, 3rd Number = 203

The 2nd Number is the greatest.

```
PS C:\Lab> 
```

```
PS C:\Lab> gcc 8.c ; ./a
```

Read n number of values in an array and display it in reverse order:

Input the number of elements to store in the array :5

Input 5 number of elements in the array :

element - 0 : 34

element - 1 : 23

element - 2 : 15

element - 3 : 67

element - 4 : 28

The values store into the array are :

34 23 15 67 28

The values store into the array in reverse are :

28 67 15 23 34

```
PS C:\Lab> 
```

```
PS C:\Lab> gcc 2.c ; ./a
Input a year : 2010
2010 is not a leap year,
```

```
PS C:\Lab> ./a
Input a year : 2012
2012 is a leap year.
```

```
PS C:\Lab> ./a
Input a year : 2015
2015 is not a leap year,
```

```
PS C:\Lab> ./a
Input a year : 2020
2020 is a leap year.
```

```
PS C:\Lab> ./a
Input a year : 2023
2023 is not a leap year,
```

```
PS C:\Lab> ./a
Input a year : 2024
2024 is a leap year.
```

```
PS C:\Lab> 
```

```
PS C:\Lab> gcc 10.c ; ./a
```

Find maximum and minimum element in an array :

Input the number of elements to be stored in the array :6
Input 6 elements in the array :

```
element - 1 : 23
element - 2 : 25
element - 3 : 35
element - 4 : 31
element - 5 : 12
element - 6 : 43
Maximum element is : 43
Minimum element is : 12
```

```
PS C:\Lab> 
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```
PS C:\Lab> gcc 7.c ; ./a
Input the number : 5
The factorial of 5 is 120
```

```
PS C:\Lab> ./a
Input the number : 7
The factorial of 7 is 5040
```

```
PS C:\Lab> ./a
Input the number : 1
The factorial of 1 is 1
```

```
PS C:\Lab> ./a
Input the number : 0
The factorial of 0 is 1
```

```
PS C:\Lab> 
```

```
PS C:\Lab> gcc 4.c ; ./a
Enter a number : 76456
Sum is = 28
```

```
PS C:\Lab> 
```

```
PS C:\Lab> gcc 11.c ; ./a
```

```
sort elements of array in descending order :  
-----
```

```
Input the size of array : 5
```

```
Input 5 elements in the array :
```

```
element - 1 : 23
```

```
element - 2 : 32
```

```
element - 3 : 12
```

```
element - 4 : 8
```

```
element - 5 : 43
```

```
Elements of array is sorted in descending order:
```

```
43  32  23  12  8
```

```
PS C:\Lab> 
```

```
PS C:\Lab> gcc 12.c ; ./a
```

```
Delete an element at desired position from an array :  
-----
```

```
Input the size of array : 6
```

```
Input 6 elements in the array in ascending order:
```

```
element - 0 : 23
```

```
element - 1 : 24
```

```
element - 2 : 12
```

```
element - 3 : 16
```

```
element - 4 : 17
```

```
element - 5 : 33
```

```
Input the position where to delete: 2
```

```
The new list is :    23  24  16  17  33
```

```
PS C:\Lab> 
```