

```
1.linear search
2.Binary search
2
enter the size of the array
5
the elements in the array are
1
2
3
4
5
enter the element to be searched
2
Element found at index : 1
time taken is 0.016775
```

```
...Program finished with exit code 0
Press ENTER to exit console.█
```

Enter the Number of Elements: 5

The elements are: 9383 886 2777 6915 7793

Time taken to sort 5 numbers is 0.162957 Secs

The Sorted array in ascending order: 886 2777 6915 7793 9383

...Program finished with exit code 0

Press ENTER to exit console.

main.c:13:18: warning: implicit declaration of function 'rand' [-Wimplicit-function-declaration]
Enter number of elements
5

The elements are:
9383 886 2777 6915 7793
Time taken to sort 5 numbers is 0.167837 SecsSorted list in ascending order:
886
2777
6915
7793
9383

...Program finished with exit code 0
Press ENTER to exit console.



1.linear search

2.Binary search

1

enter the size of the array

6

the elements in the array are

84

87

78

16

94

36

enter the element to be searched

16

Element found at pos 4

time taken is 0.017600

...Program finished with exit code 0

Press ENTER to exit console.

```
main.c:17:13: note: previous implicit declaration of 'tower' was here
Choose from the following-
```

- 1.Tower of Hanoi
- 2.GCD
- 3.Exit

```
1
Enter number of disks: 4
```

```
Move disk number 1 from A to B
Move disk number 2 from A to B
Move disk number 1 from C to B
Move disk number 3 from A to B
Move disk number 1 from C to B
Move disk number 2 from C to B
Move disk number 1 from A to B
Move disk number 4 from A to B
Move disk number 1 from C to B
Move disk number 2 from C to B
Move disk number 1 from A to B
Move disk number 3 from C to B
Move disk number 1 from A to B
Move disk number 2 from A to B
Move disk number 1 from C to B
```

```
1.Tower of Hanoi
2.GCD
3.Exit
2
Enter the first positive integer: 66 18
Enter the second positive integer: G.C.D of 66 and 18 is 6.
```

- 1.Tower of Hanoi
 - 2.GCD
 - 3.Exit
- ```
3
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```