

OUTPUT: 1

"D:\My Data\FILES\LAB File DS\Q1.exe"

Enter 10 elements in array:

Enter 1 element: 11

Enter 2 element: 12

Enter 3 element: 23

Enter 4 element: 34

Enter 5 element: 45

Enter 6 element: 56

Enter 7 element: 67

Enter 8 element: 78

Enter 9 element: 89

Enter 10 element: 90

Entered elements are:

1 element: 11

2 element: 12

3 element: 23

4 element: 34

5 element: 45

6 element: 56

7 element: 67

8 element: 78

9 element: 89

10 element: 90

OUTPUT: 2

"D:\My Data\FILES\LAB File DS\Q2.exe"

Input 10 elements in the array:

Enter 1 element: 11

Enter 2 element: 12

Enter 3 element: 23

Enter 4 element: 34

Enter 5 element: 45

Enter 6 element: 56

Enter 7 element: 67

Enter 8 element: 78

Enter 9 element: 89

Enter 10 element: 90

Input the position where to delete: 6

The new list is : 11 12 23 34 45 67 78 89 90_

OUTPUT: 3

C:\Users\chira\OneDrive\Desktop\Untitled2.exe

```
15 pushed to stack  
25 pushed to stack  
35 pushed to stack  
35 popped from stack
```

Process returned 0 (0x0) execution time : 6.128 s

Press any key to continue.

OUTPUT: 4

"D:\My Data\FILES\LAB File DS\QUIK01.exe"

Choose one from the below options:

1.Insert 2.Delete

3.Display 4.Quit

Enter your choice : 1

Inset the element in queue : 23

Choose one from the below options:

1.Insert 2.Delete

3.Display 4.Quit

Enter your choice : 1

Inset the element in queue : 45

Choose one from the below options:

1.Insert 2.Delete

3.Display 4.Quit

Enter your choice : 1

Inset the element in queue : 67

Choose one from the below options:

1.Insert 2.Delete

3.Display 4.Quit

Enter your choice : 2

Element deleted from queue is : 23

Choose one from the below options:

1.Insert 2.Delete

3.Display 4.Quit

Enter your choice : 3

Queue elements are:

45 67

Choose one from the below options:

1.Insert 2.Delete

3.Display 4.Quit

Enter your choice : 4

Exit_

OUTPUT: 5

"D:\My Data\FILES\LAB File DS\Stack.exe"

Chose one from the below options...

1.Push 2.Pop

3.Show 4.Exit

Enter your choice: 1

Enter the value: 23

Item pushed

Chose one from the below options...

1.Push 2.Pop

3.Show 4.Exit

Enter your choice: 1

Enter the value: 34

Item pushed

Chose one from the below options...

1.Push 2.Pop

3.Show 4.Exit

Enter your choice: 1

Enter the value: 45

Item pushed

Chose one from the below options...

1.Push 2.Pop

3.Show 4.Exit

Enter your choice: 2

Item popped

Chose one from the below options...

1.Push 2.Pop

3.Show 4.Exit

Enter your choice: 3

Printing Stack elements

34 23

Chose one from the below options...


1.Push 2.Pop

3.Show 4.Exit

Enter your choice: 4

Exiting....

OUTPUT: 6

 "C:\Users\chira\OneDrive\Desktop\Data Structure\Q6.exe"

The linked list is:

6 8 9 4 7

OUTPUT: 7

"C:\Users\chira\OneDrive\Desktop\Data Structure\Q7.exe"

Enter the 5 elements to be sorted:

67

3

457

54

31

After applying quick sort

3 31 54 67 457

OUTPUT: 8

"C:\Users\chira\OneDrive\Desktop\Data Structure\Q8.exe"


Enter 10 elements:

90
12
78
34
56
78
98
56
1
25

Sorted elements are:

1
12
25
34
56
56
78
78
90
98

OUTPUT: 9

 "C:\Users\chira\OneDrive\Desktop\Data Structure\Q9.exe"

Before sorting array elements are -

12 31 25 8 32 17

After sorting array elements are -

8 12 17 25 31 32 ■

OUTPUT: 10

"C:\Users\chira\OneDrive\Desktop\Data Structure\Q10.exe"

Enter number of elements: 5

Enter 5 integers

1 integer: 89

2 integer: 34

3 integer: 23

4 integer: 69

5 integer: 84

Enter value to find: 23

23 found at location 3