

OUTPUT

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\linearSearch.exe
Enter the number to search: 45
Element found at index 3.

-----
Process exited after 8.083 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\linearSearch.exe
Enter the number to search: 24
Element not found.

-----
Process exited after 2.961 seconds with return value 0
Press any key to continue . . .
```

OUTPUT

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\binarySearch.exe
Enter the number to search: 10
Element found at index 1.

-----
Process exited after 3.791 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\binarySearch.exe
Enter the number to search: 49
Element not found.

-----
Process exited after 9.49 seconds with return value 0
Press any key to continue . . .
```

OUTPUT

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\insertionSort.exe
Original array: 12 11 13 5 6
Sorted array: 5 6 11 12 13

-----
Process exited after 0.1618 seconds with return value 0
Press any key to continue . . .
```

OUTPUT

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\mergeSort.exe
Original array: 38 27 43 3 9 82 10
Sorted array: 3 9 10 27 38 43 82
-----
Process exited after 0.03009 seconds with return value 0
Press any key to continue . . .
```

OUTPUT

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\quickSort.exe
Original array: 33 10 55 71 29 19 42
Sorted array: 10 19 29 33 42 55 71

-----
Process exited after 0.1664 seconds with return value 0
Press any key to continue . . .
```

OUTPUT

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\heapSort.exe
Original array: 40 10 30 50 60 20 70
Sorted array: 10 20 30 40 50 60 70

-----
Process exited after 0.1647 seconds with return value 0
Press any key to continue . . .
```

OUTPUT

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\minAndMax.exe
Minimum element: 5
Maximum element: 89

-----
Process exited after 0.1338 seconds with return value 0
Press any key to continue . . .
```

OUTPUT

```
C:\Users\HP\Desktop>Ashutosh Tiwari DAA\stackArray.exe
--- Stack Menu ---
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 1
Enter value to push: 10
10 pushed to stack

--- Stack Menu ---
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 4

-----
Process exited after 9.869 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\HP\Desktop>Ashutosh Tiwari DAA\stackArray.exe
Enter your choice: 1
Enter value to push: 20
20 pushed to stack

--- Stack Menu ---
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 2
Popped value: 20

--- Stack Menu ---
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 3
Stack elements:
10

--- Stack Menu ---
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 4

-----
Process exited after 30.76 seconds with return value 0
Press any key to continue . . .
```

OUTPUT

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\stackLinkedList.exe
--- Stack Menu (Linked List) ---
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 1
Enter value to push: 10
10 pushed to stack

--- Stack Menu (Linked List) ---
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 3
Stack elements:
10

--- Stack Menu (Linked List) ---
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 4

-----
Process exited after 8.248 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\stackLinkedList.exe
Enter your choice: 1
Enter value to push: 20
20 pushed to stack

--- Stack Menu (Linked List) ---
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 2
Popped value: 20

--- Stack Menu (Linked List) ---
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 3
Stack elements:
10

--- Stack Menu (Linked List) ---
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 4

-----
Process exited after 21.09 seconds with return value 0
Press any key to continue . . .
```

OUTPUT

```
C:\Users\HP\Desktop\Ashutosh Tiwari DAA\floydAlgo.exe
Shortest distance matrix:
      0      5      8      9
INF      0      3      4
INF      INF      0      1
INF      INF      INF      0

-----
Process exited after 0.1907 seconds with return value 0
Press any key to continue . . .
```