```
s4csbs@rajagiri-OptiPlex-5090:~$ gcc array.c
s4csbs@rajagiri-OptiPlex-5090:~$ ./a.out
Enter number of elements in an array: 100
The array:
383    886    777    915    793    335    386    492    649    421    362    27     690    59     763    926    540    426    172    736    211    368    567    429    782    530
862    123    67     135    929    802    22     58     69     167    393    456    11     42     229    373    421    919    784    537    198    324    315    370    413    526
91     980    956    873    862    170    996    281    305    925    84     327    336    505    846    729    313    857    124    895    582    545    814    367    434    364
43     750    87     808    276    178    788    584    403    651    754    399    932    60     676    368    739    12     226    586    94     539
Enter position of element to be removed:25

element deleted is 782
The time taken for deletion is: 0.000023000000000s

The next largest element: 784

The time taken for next largest element is: 0.000010000000000s
s4csbs@rajagiri-OptiPlex-5090:~$ gcc array.c
s4csbs@rajagiri-OptiPlex-5090:~$ ./a.out
Enter number of elements in an array: 1000

Enter position of element to be removed:250

element deleted is 810
The time taken for deletion is: 0.000029000000000s

The next largest element: 811

The time taken for next largest element is: 0.000022000000000s
```

```
s4csbs@rajagiri-OptiPlex-5090:~$ ./a.out
Enter number of elements in an array: 10000

Enter position of element to be removed:2500

element deleted is 131
The time taken for deletion is: 0.000080000000000s

The next largest element: 132

The time taken for next largest element is: 0.000148000000000s
s4csbs@rajagiri-OptiPlex-5090:~$ ./a.out
Enter number of elements in an array: 100000

Enter position of element to be removed:25000

element deleted is 416
The time taken for deletion is: 0.000448000000000s

The next largest element: 417

The time taken for next largest element is: 0.002393000000000s
s4csbs@rajagiri-OptiPlex-5090:~$ ./a.out
Enter number of elements in an array: 1000000

Enter position of element to be removed:250000

element deleted is 771
The time taken for deletion is: 0.003983000000000s

The next largest element: 772

The time taken for next largest element is: 0.013295000000000s
```

```
s4csbs@rajagiri-OptiPlex-5090:~$ gcc linked.c
s4csbs@rajagiri-OptiPlex-5090:~$ ./a.out
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:1
Enter no. of elements:100
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:2
383     886     777     915     793     335     386     492     649     421     362     27      690     59      763     926     540     426     172     736     211
862     123     67      135     929     802     22      58      69      167     393     456     11      42      229     373     421     919     784     537     198
91      980     956     873     862     170     996     281     305     925     84      327     336     505     846     729     313     857     124     895     582
43      750     87      808     276     178     788     584     403     651     754     399     932     60      676     368     739     12      226     586     94
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:3
Enter postion of data (starting from 0):
25
Element deleted is 530
The time taken for deletion is: 0.000008000000000s
```

```
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:4
The next greatest element in the list is : 537
The time taken for next largest element is: 0.000028000000000s
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:1
Enter no. of elements:1000
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:3
Enter postion of data (starting from 0):
250
Element deleted is 801
The time taken for deletion is: 0.000010000000000s
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:4
The next greatest element in the list is : 802
The time taken for next largest element is: 0.000060000000000s
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:1
Enter no. of elements:10000
```

```
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:3
Enter postion of data (starting from 0):
2500
Element deleted is 709
The time taken for deletion is: 0.000034000000000s
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:4
The next greatest element in the list is : 710
The time taken for next largest element is: 0.000409000000000s
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:1
Enter no. of elements:100000
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:3
Enter postion of data (starting from 0):
25000
Element deleted is 186
The time taken for deletion is: 0.000266000000000s
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:4
The next greatest element in the list is : 187
The time taken for next largest element is: 0.003247000000000s
```

```
Enter choice:3
Enter postion of data (starting from 0):
25000
Element deleted is 186
The time taken for deletion is: 0.000266000000000s
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:4
The next greatest element in the list is : 187
The time taken for next largest element is: 0.003247000000000s
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:1
Enter no. of elements:1000000
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:3
Enter postion of data (starting from 0):
250000
Element deleted is 272
The time taken for deletion is: 0.002620000000000s
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:4
The next greatest element in the list is : 273
The time taken for next largest element is: 0.013762000000000s
MENU
1.Insert
2.Display
3.Delete
4.Next largest
5.Exit
Enter choice:5
```