



COC2910

Priority Queue

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```
zaid Cpp College Assignments $ g++ Priority_que.cpp
zaid Cpp College Assignments $ ./a.out
Enter
  1. Implementation with Multiple Arrays
  2. Implementation with List
  3. Implementation with Single Array
1
Enter
  1. To add an element
  2. Remove the element
  3. To display 4. Quit
1
Enter the data and it's priority to be added: -4 5
Enter
  1. To add an element
  2. Remove the element
  3. To display 4. Quit
1
Enter the data and it's priority to be added: -5 6
Enter
  1. To add an element
  2. Remove the element
  3. To display 4. Quit
3
Element = 5      Priority = 6
Element = 4      Priority = 5
Enter
  1. To add an element
  2. Remove the element
  3. To display 4. Quit
2
Deleted Element =5
Its Priority = 6
Enter
  1. To add an element
  2. Remove the element
  3. To display 4. Quit
3
Element = 4      Priority = 5
Enter
  1. To add an element
  2. Remove the element
  3. To display 4. Quit
5
zaid Cpp College Assignments $ █
```

```
zaid Cpp College Assignments $ ./a.out
Enter
  1. Implementation with Multiple Arrays
  2. Implementation with List
  3. Implementation with Single Array
3
  1. Enter 1 for insert operation
  2. Enter 2 for remove operation
  3. Enter 3 for displaying of priority queue
  4. To Quit
1
Enter the vaalue to insert:5
  1. Enter 1 for insert operation
  2. Enter 2 for remove operation
  3. Enter 3 for displaying of priority queue
  4. To Quit
1
Enter the vaalue to insert:7
  1. Enter 1 for insert operation
  2. Enter 2 for remove operation
  3. Enter 3 for displaying of priority queue
  4. To Quit
1
Enter the vaalue to insert:3
  1. Enter 1 for insert operation
  2. Enter 2 for remove operation
  3. Enter 3 for displaying of priority queue
  4. To Quit
3
The priority queue at this stage is as follows:-
5 7 3
  1. Enter 1 for insert operation
  2. Enter 2 for remove operation
  3. Enter 3 for displaying of priority queue
  4. To Quit
2
Deleted element is7
  1. Enter 1 for insert operation
  2. Enter 2 for remove operation
  3. Enter 3 for displaying of priority queue
  4. To Quit
2
Deleted element is5
  1. Enter 1 for insert operation
  2. Enter 2 for remove operation
  3. Enter 3 for displaying of priority queue
  4. To Quit
4
Thank a lot!! Quitting....zaid Cpp College Assignments $
```

```
Enter
zaid Cpp College Assignments $ g++ Priority_que.cpp
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Enter
  1. Implementation with Multiple Arrays
  2. Implementation with List
  3. Implementation with Single Array
2
Enter
  1. To add an element
  2. Remove the element
  3. To display
  4. Quit
1
Enter the value of Elemnet and it's priority :- 5 2
Enter
  1. To add an element
  2. Remove the element
  3. To display
  4. Quit
1
Enter the value of Elemnet and it's priority :- 6 3
Enter
  1. To add an element
  2. Remove the element
  3. To display
  4. Quit
3
  4 5 6
Enter
  1. To add an element
  2. Remove the element
  3. To display
  4. Quit
2
```