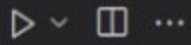


KrySengHortQueuePractice.cpp X

Year 02 &gt; Data Structure &amp; Programming &gt; C++ &gt; Course &gt; Chapter 10 Queue and Stacks &gt; KrySengHortQueuePractice.cpp &gt; displayDequeue(queue \*)

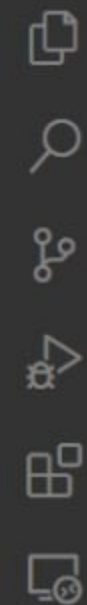
```
1  #include<iostream>
2  using namespace std;
3  struct element{
4      int data;
5      element *next;
6  };
7  struct queue{
8      int n;
9      element *rear_, *front_;
10 };
11 queue *createEmptyQueue(){
12     queue *q;
13     q = new queue;
14     q->n=0;
15     q->front_ = NULL;
16     q->rear_ = NULL;
17     return q;
18 }
19 void enqueue(queue *q, int newData){
20     element *e;
21     e = new element;
22     e->data = newData;
23     e->next = NULL;
24     if(q->n==0){
25         q->front_ = e;
26         q->rear_ = e;
27         q->n = q->n+1;
```

KrySengHortQueuePractice.cpp X

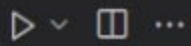


Year 02 &gt; Data Structure &amp; Programming &gt; C++ &gt; Course &gt; Chapter 10 Queue and Stacks &gt; KrySengHortQueuePractice.cpp &gt; enqueue(queue \*, int)

```
27 |         q->n = q->n+1;
28 |     }
29 | }
30 void dequeue(queue *q){
31     if(q->n==0){
32         cout<<"Can not delete ! Queue is empty ! Underflow!"<<endl;
33     }
34     else{
35         element *t;
36         t = q->front_;
37         q->front_ = q->front_ ->next;
38         cout<<"\tdelete " <<t->data<<endl;
39         delete t;
40         q->n = q->n-1;
41     }
42 }
43 void displayDequeue(queue *q){
44     element *e;
45     e = q ->front_ ;
46     while(e!= NULL){
47         cout<<e->data<<" ";
48         e = e->next;
49     }
50     cout<<endl;
51 }
52 int main(){
53     queue *q1;
```



KrySengHortQueuePractice.cpp X



Year 02 &gt; Data Structure &amp; Programming &gt; C++ &gt; Course &gt; Chapter 10 Queue and Stacks &gt; KrySengHortQueuePractice.cpp &gt; main()

```
51 }  
52 int main(){  
53     queue *q1;  
54     q1 = createEmptyQueue();  
55     enqueue(q1, 5);  
56     enqueue(q1, 7);  
57     enqueue(q1, 9);  
58     enqueue(q1, 0);  
59     displayDequeue(q1);  
60     dequeue(q1);  
61     dequeue(q1);  
62     displayDequeue(q1);  
63     return 0;  
64 }
```



PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Windows PowerShell

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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes.  
If you want to re-enable it, run 'Import-Module PSReadLine'.

```
PS D:\Year 02> cd "d:\Year 02\Data Structure & Programming\C++\Course\Chapter 10 Queue and Stacks\" ; if ($?) { g++ tempCodeRunnerFile.cpp -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }
c:/mingw/bin/./lib/gcc/mingw32/6.3.0/./../../../../libmingw32.a(main.o):(.text.startup+0xa0): undefined reference to `WinMain@16'
```

collect2.exe: error: ld returned 1 exit status

```
PS D:\Year 02\Data Structure & Programming\C++\Course\Chapter 10 Queue and Stacks> cd "d:\Year 02\Data Structure & Programming\C++\Course\Chapter 10 Queue and Stacks\" ; if ($?) { g++ KrySengHortQueuePractice.cpp -o KrySengHortQueuePractice } ; if ($?) { .\KrySengHortQueuePractice }
5
```

delete 5

Can not delete ! Queue is empty ! Underflow!

```
PS D:\Year 02\Data Structure & Programming\C++\Course\Chapter 10 Queue and Stacks> 
```

Code

C/C++: ... ✓

cppdbg: Kry...