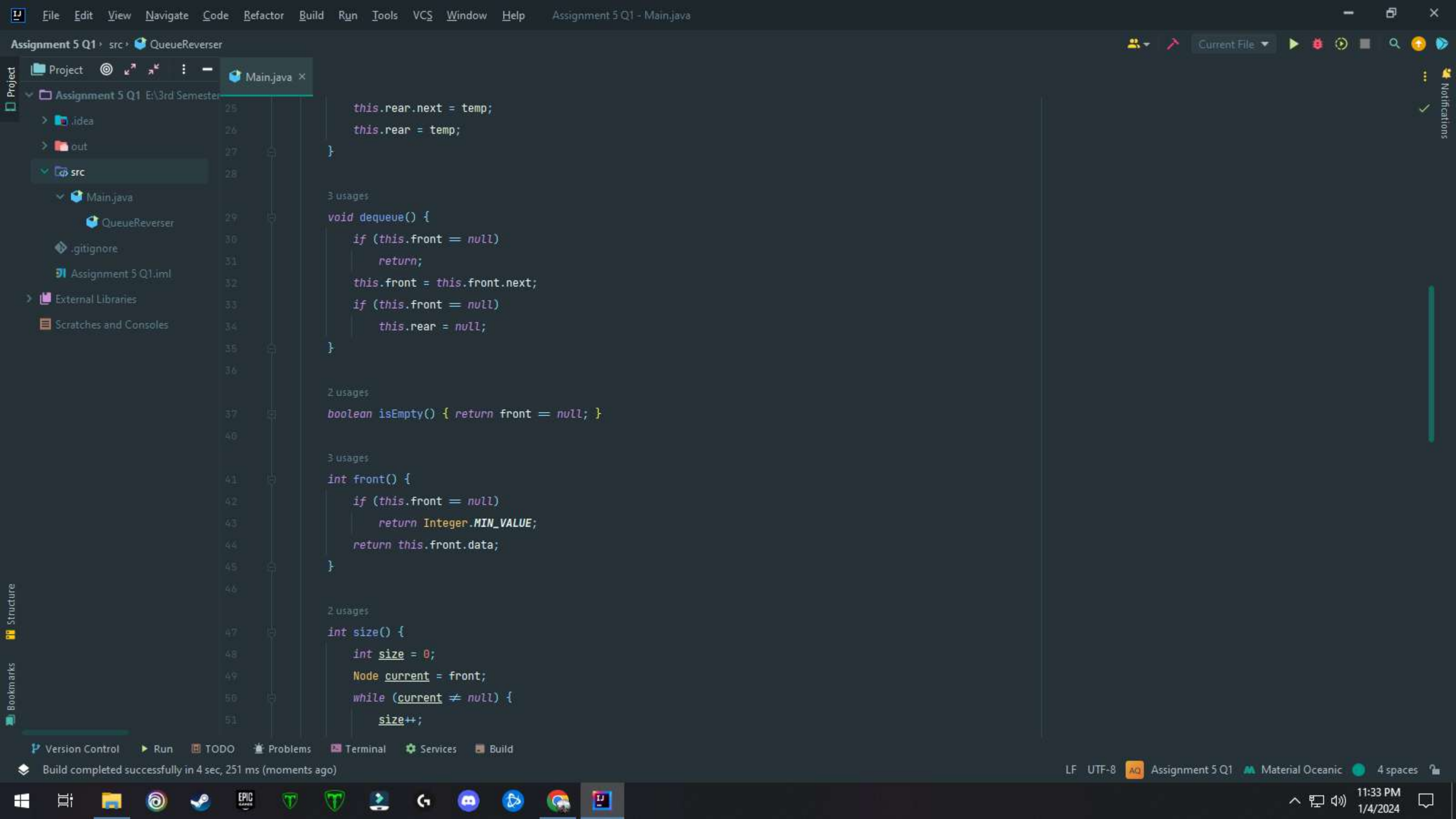
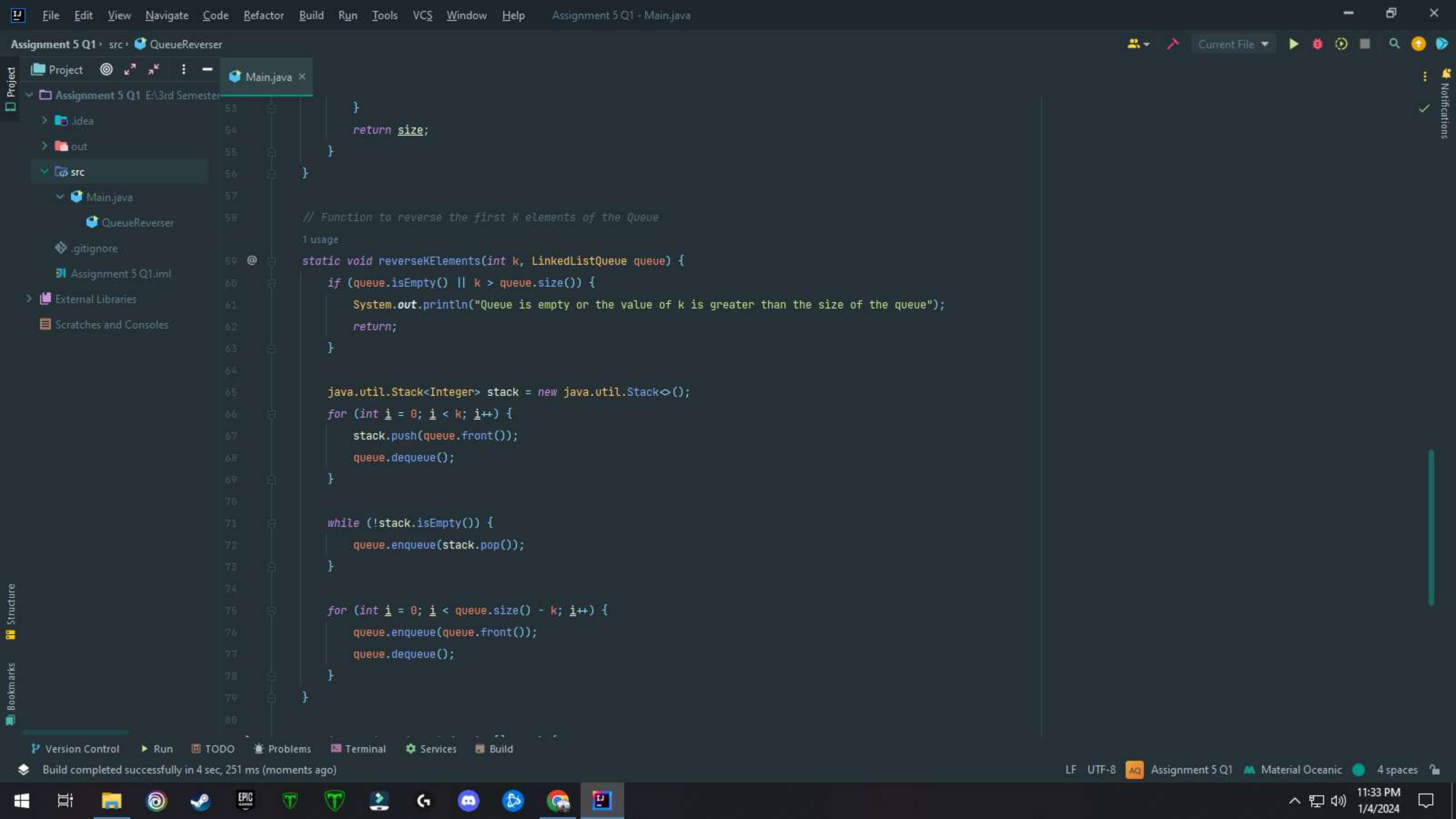


```
1 class QueueReverser {  
    5 usages  
2     static class Node {  
        2 usages  
3         int data;  
        4 usages  
4         Node next;  
5  
        1 usage  
6         Node(int data) {  
7             this.data = data;  
8             this.next = null;  
9         }  
10    }  
11  
    3 usages  
12    static class LinkedListQueue {  
        10 usages  
13        Node front, rear;  
14  
        1 usage  
15        public LinkedListQueue() { this.front = this.rear = null; }  
16  
        7 usages  
17  
18        void enqueue(int key) {  
19            Node temp = new Node(key);  
20            if (this.rear == null) {  
21                this.front = this.rear = temp;  
22            }  
23            return;
```





```
53     }
54     return size;
55 }
56 }
57
58 // Function to reverse the first k elements of the Queue
59 @ 1 usage
60 static void reverseKElements(int k, LinkedListQueue queue) {
61     if (queue.isEmpty() || k > queue.size()) {
62         System.out.println("Queue is empty or the value of k is greater than the size of the queue");
63         return;
64     }
65
66     java.util.Stack<Integer> stack = new java.util.Stack<>();
67     for (int i = 0; i < k; i++) {
68         stack.push(queue.front());
69         queue.dequeue();
70     }
71
72     while (!stack.isEmpty()) {
73         queue.enqueue(stack.pop());
74     }
75
76     for (int i = 0; i < queue.size() - k; i++) {
77         queue.enqueue(queue.front());
78         queue.dequeue();
79     }
80 }
```


FileEditViewNavigateCodeRefactorBuildRunToolsVCSWindowHelp

Assignment 5 Q1 - Main.java

Assignment 5 Q1srcQueueReverser

Project

Assignment 5 Q1E:\3rd Semester

srcMain.javaQueueReverser.gitignoreAssignment 5 Q1.iml

External Libraries

Scratches and Consoles

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99

queue.enqueue(queue.front());

queue.dequeue();

}

}

public static void main(String[] args) {

LinkedListQueue queue = new LinkedListQueue();

queue.enqueue(key: 10);

queue.enqueue(key: 20);

queue.enqueue(key: 30);

queue.enqueue(key: 40);

queue.enqueue(key: 50);

int k = 3;

reverseKElements(k, queue);

System.out.println("Queue after reversing first " + k + " elements:");

while (!queue.isEmpty()) {

System.out.print(queue.front() + " ");

queue.dequeue();

}

}

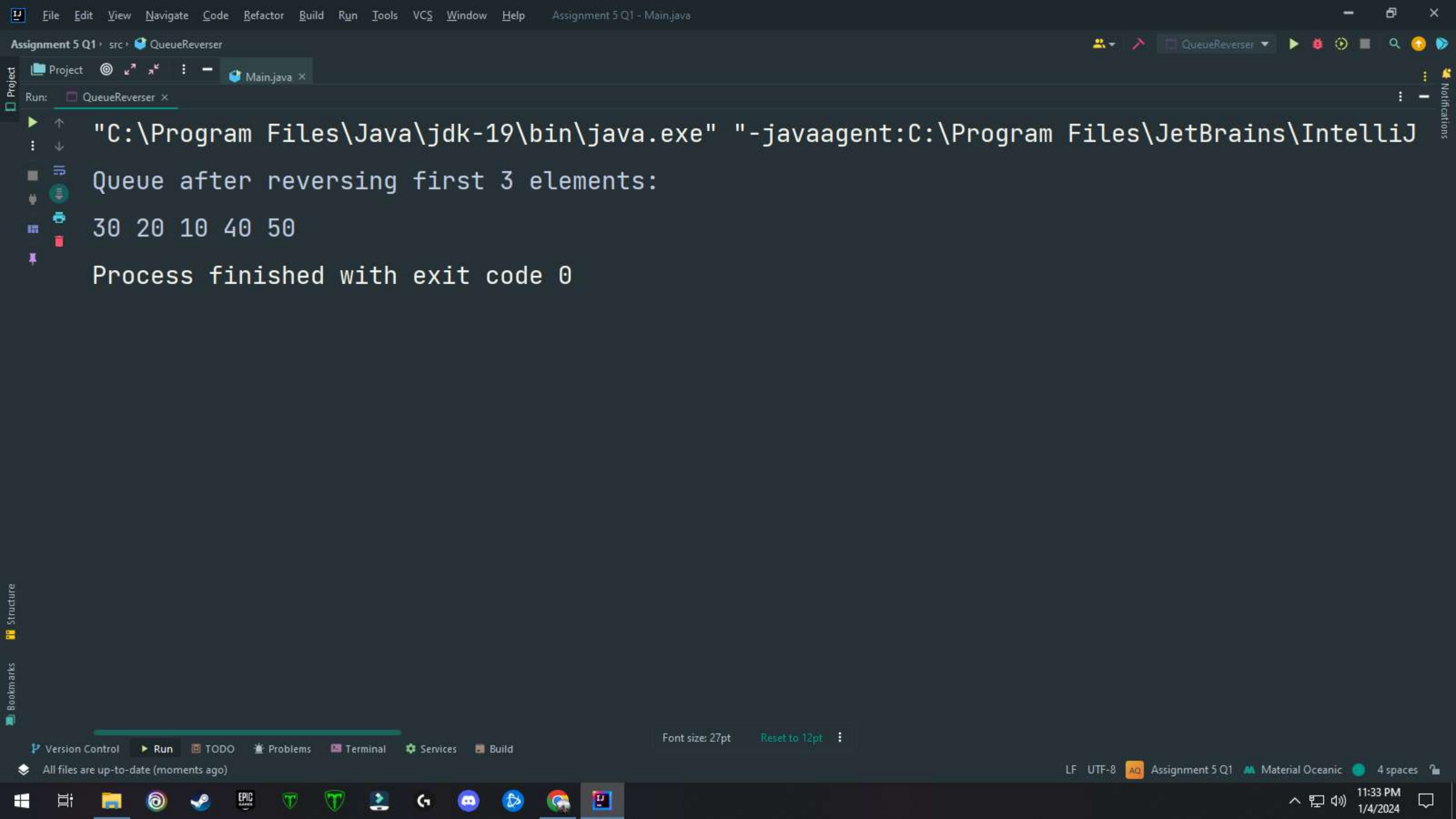
}

Version ControlRunTODOProblemsTerminalServicesBuild

Build completed successfully in 4 sec, 251 ms (moments ago)

LFUTF-8AQAssignment 5 Q1Material Oceanic4 spaces

11:33 PM1/4/2024



Assignment 5 Q2

src

Deque

Node

Node

Run 'Deque.main()'

Debug 'Deque.main()'

Run 'Deque.main()' with Coverage

Ctrl+Shift+F10

1

2

3

4

5

6

7

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13

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15

16

17

18

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20

21

static class Node {

int data;

Node next, prev;

Node(int data) {

this.data = data;

}

Node front, rear;

public Deque() {

front = rear = null;

}

boolean isEmpty() {

return (front == null);

}

void insertFront(int key) {

3 usages

4 usages

2 usages

15 usages

1 usage

4 usages

1 usage

Version Control

Run

TODO

Problems

Terminal

Services

Build

Build completed successfully in 2 sec, 874 ms (moments ago)

8:10

LF

UTF-8

AQ

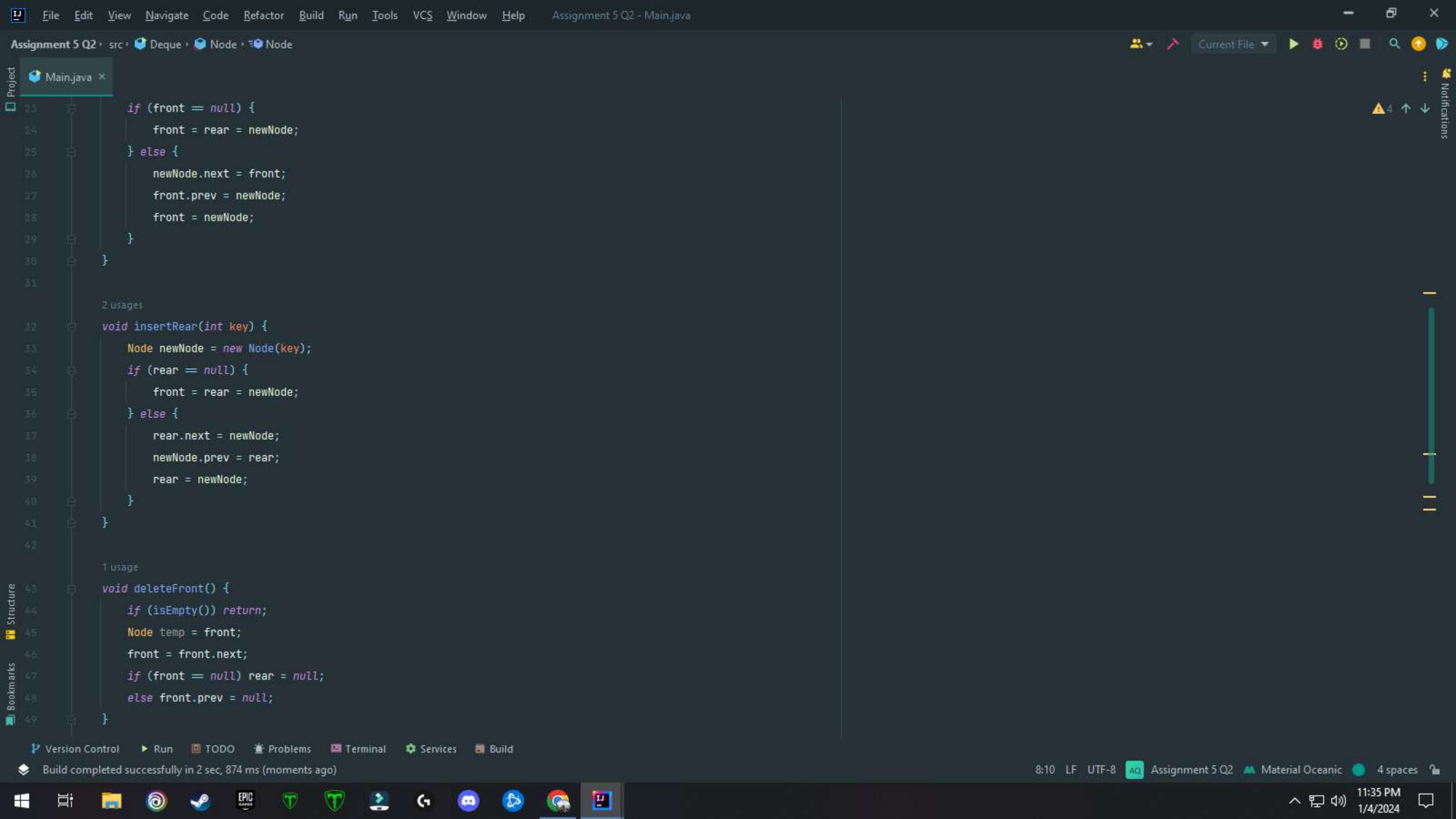
Assignment 5 Q2

Material Oceanic

4 spaces

11:35 PM

1/4/2024



```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help Assignment 5 Q2 - Main.java

Assignment 5 Q2 > src > Deque > Node > Node

Main.java x

23 if (front == null) {
24     front = rear = newNode;
25 } else {
26     newNode.next = front;
27     front.prev = newNode;
28     front = newNode;
29 }
30 }
31
32 2 usages
33 void insertRear(int key) {
34     Node newNode = new Node(key);
35     if (rear == null) {
36         front = rear = newNode;
37     } else {
38         rear.next = newNode;
39         newNode.prev = rear;
40         rear = newNode;
41     }
42 }
43
44 1 usage
45 void deleteFront() {
46     if (isEmpty()) return;
47     Node temp = front;
48     front = front.next;
49     if (front == null) rear = null;
50     else front.prev = null;
51 }
```


FileEditViewNavigateCodeRefactorBuildRunToolsVCSWindowHelpAssignment 5 Q2 - Main.java

Assignment 5 Q2src>Deque>Node>NodeMain.java x

no usages

51void deleteRear() {
52 if (isEmpty()) return;
53 Node temp = rear;
54 rear = rear.prev;
55 if (rear == null) front = null;
56 else rear.next = null;
57 }
58

2 usages

59int getFront() {
60 if (isEmpty()) return Integer.MIN_VALUE;
61 return front.data;
62 }
63

1 usage

64int getRear() {
65 if (isEmpty()) return Integer.MIN_VALUE;
66 return rear.data;
67 }
68

69public static void main(String[] args) {
70 Deque deque = new Deque();
71 deque.insertRear(key: 5);
72 deque.insertRear(key: 10);
73 deque.insertFront(key: 15);
74
75 System.out.println("Front element: " + deque.getFront());
76 System.out.println("Rear element: " + deque.getRear());
77 }

4

Notifications

Version ControlRunTODOProblemsTerminalServicesBuild

Build completed successfully in 2 sec, 874 ms (moments ago)

8:10LFUTF-8AQAssignment 5 Q2Material Oceanic4 spaces

11:35 PM1/4/2024

