

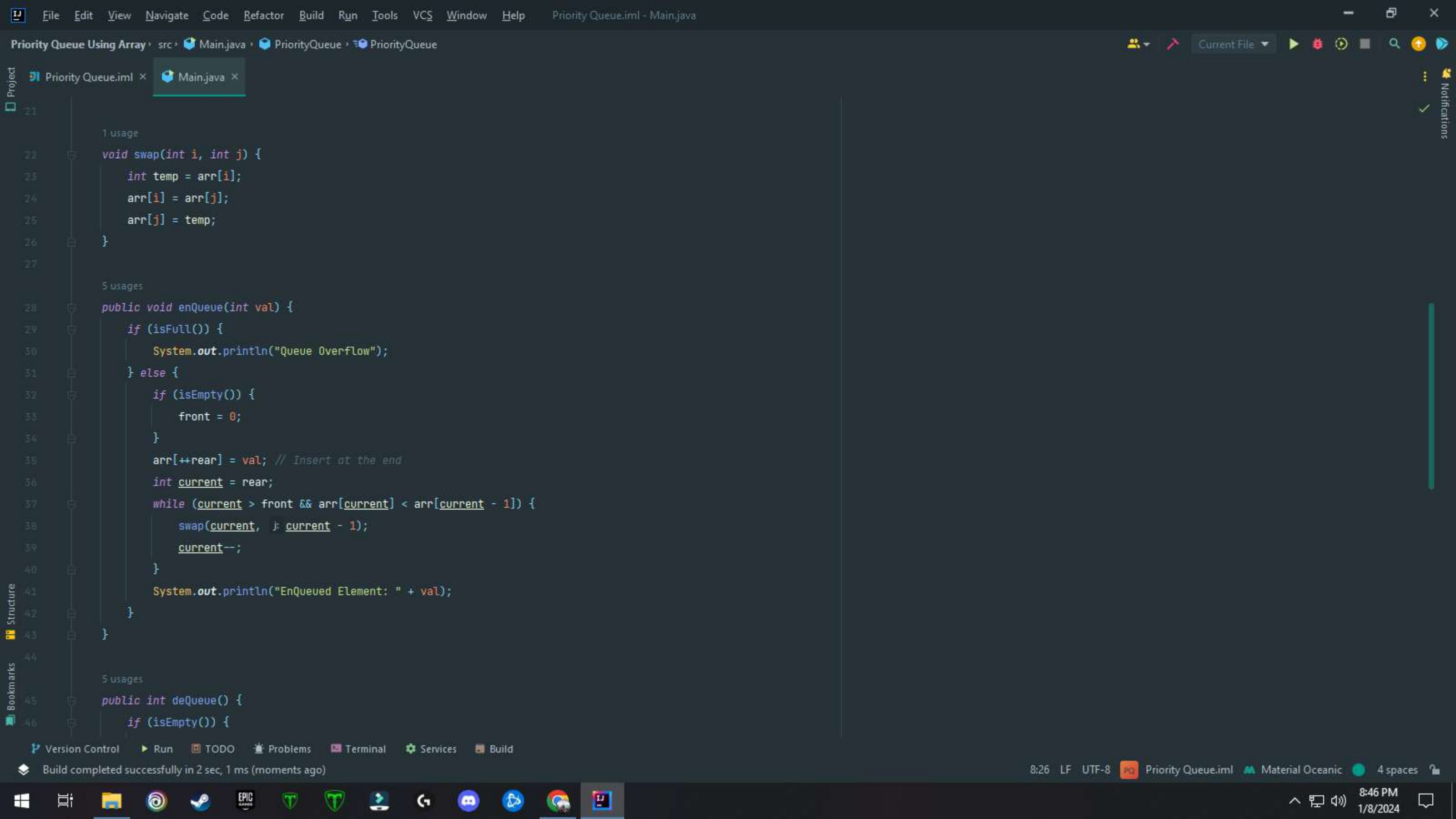
```
Priority Queue Using Array › src › Main.java › PriorityQueue › PriorityQueue

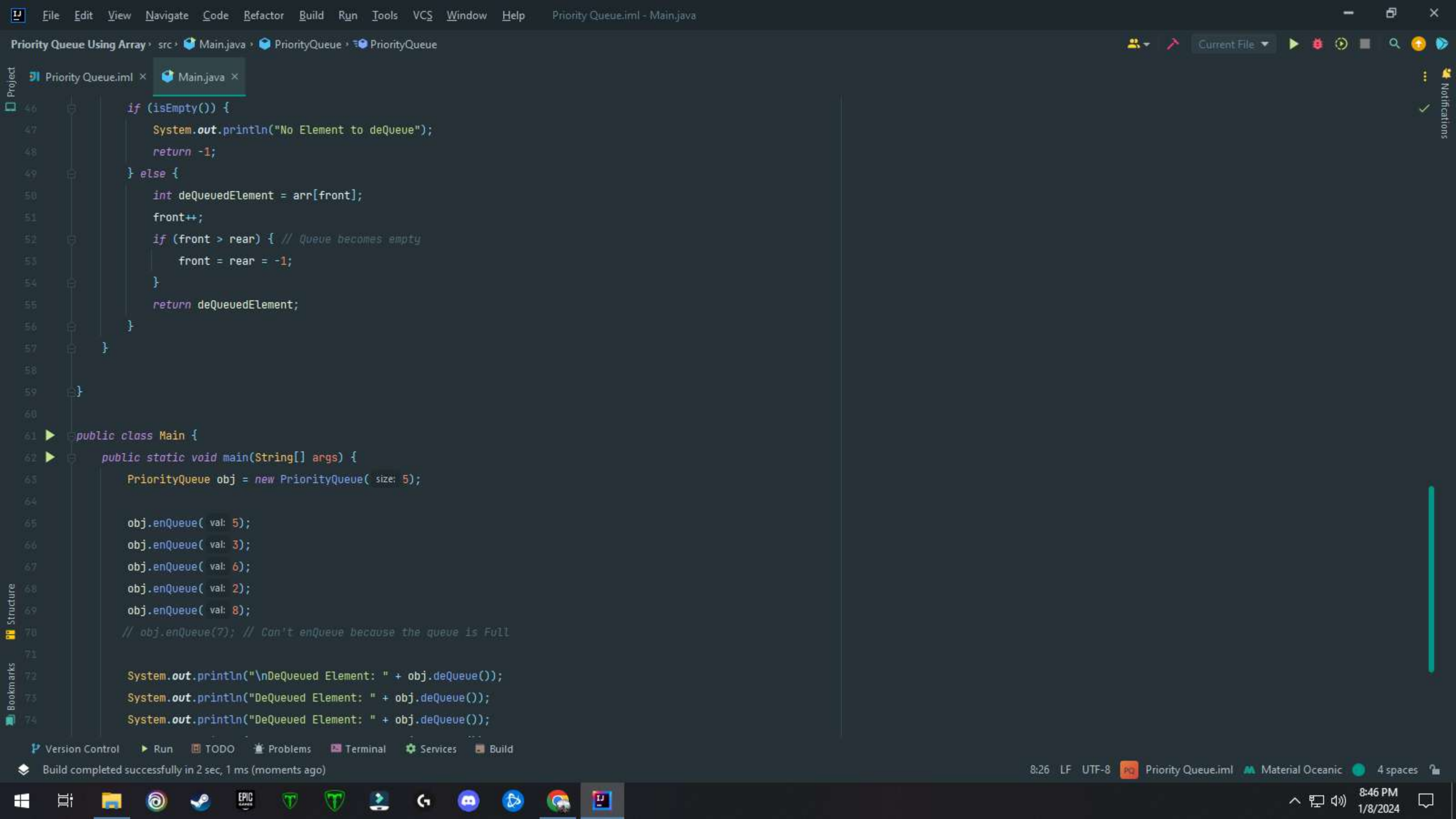
Project
Priority Queue.iml x Main.java x

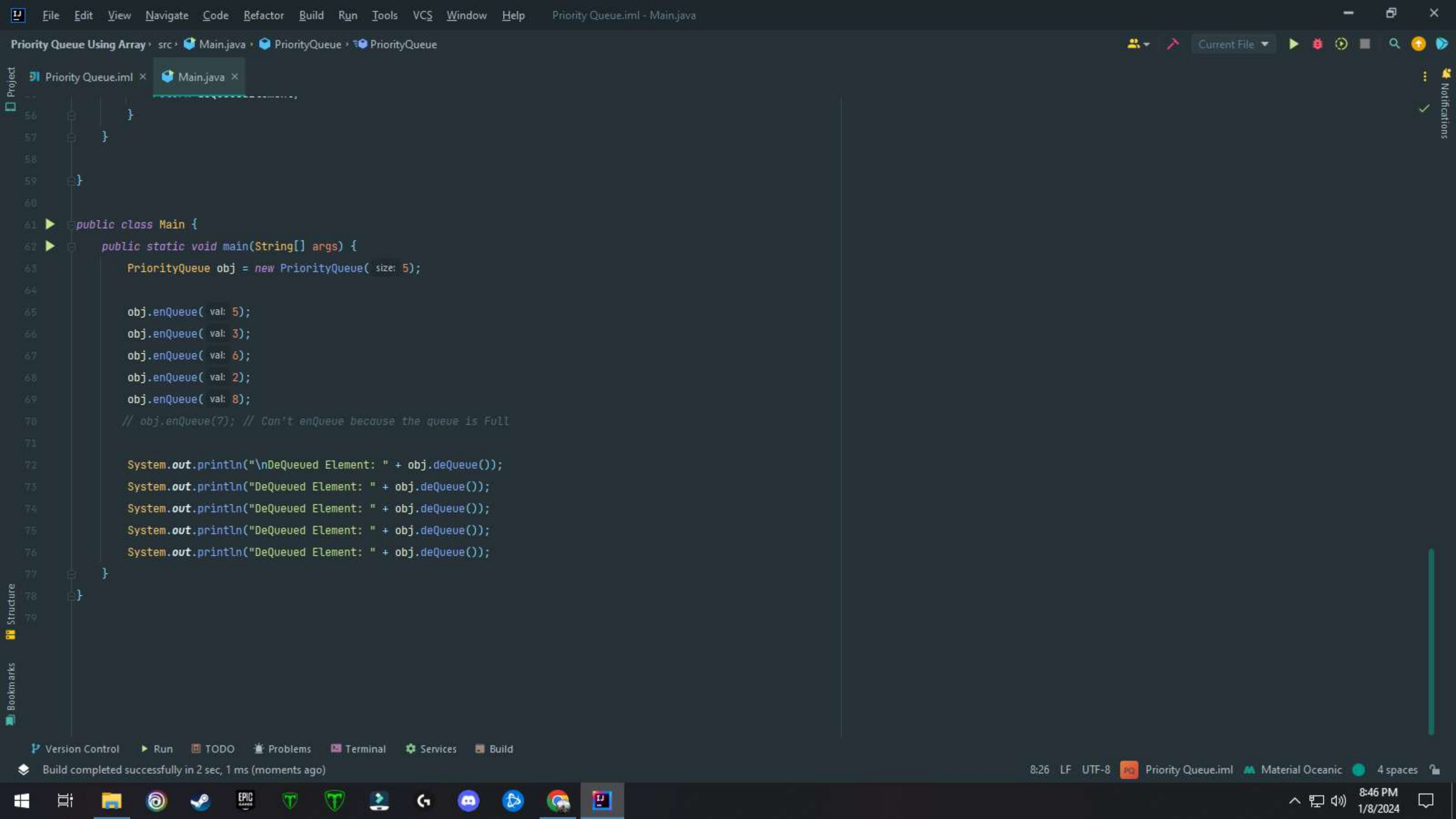
2 usages
1 class PriorityQueue {
    2 usages
    2 int size;
    9 usages
    3 int front;
    7 usages
    4 int rear;
    9 usages
    5 int[] arr;
    6
    1 usage
    7 PriorityQueue(int size) {
    8     this.size = size;
    9     front = rear = -1;
    10    arr = new int[size];
    11 }
    12
    2 usages
    13 boolean isEmpty() {
    14     return front == -1 || front > rear;
    15 }
    16
    17
    1 usage
    18 boolean isFull() {
    19     return rear == size - 1;
    20 }
    21 }

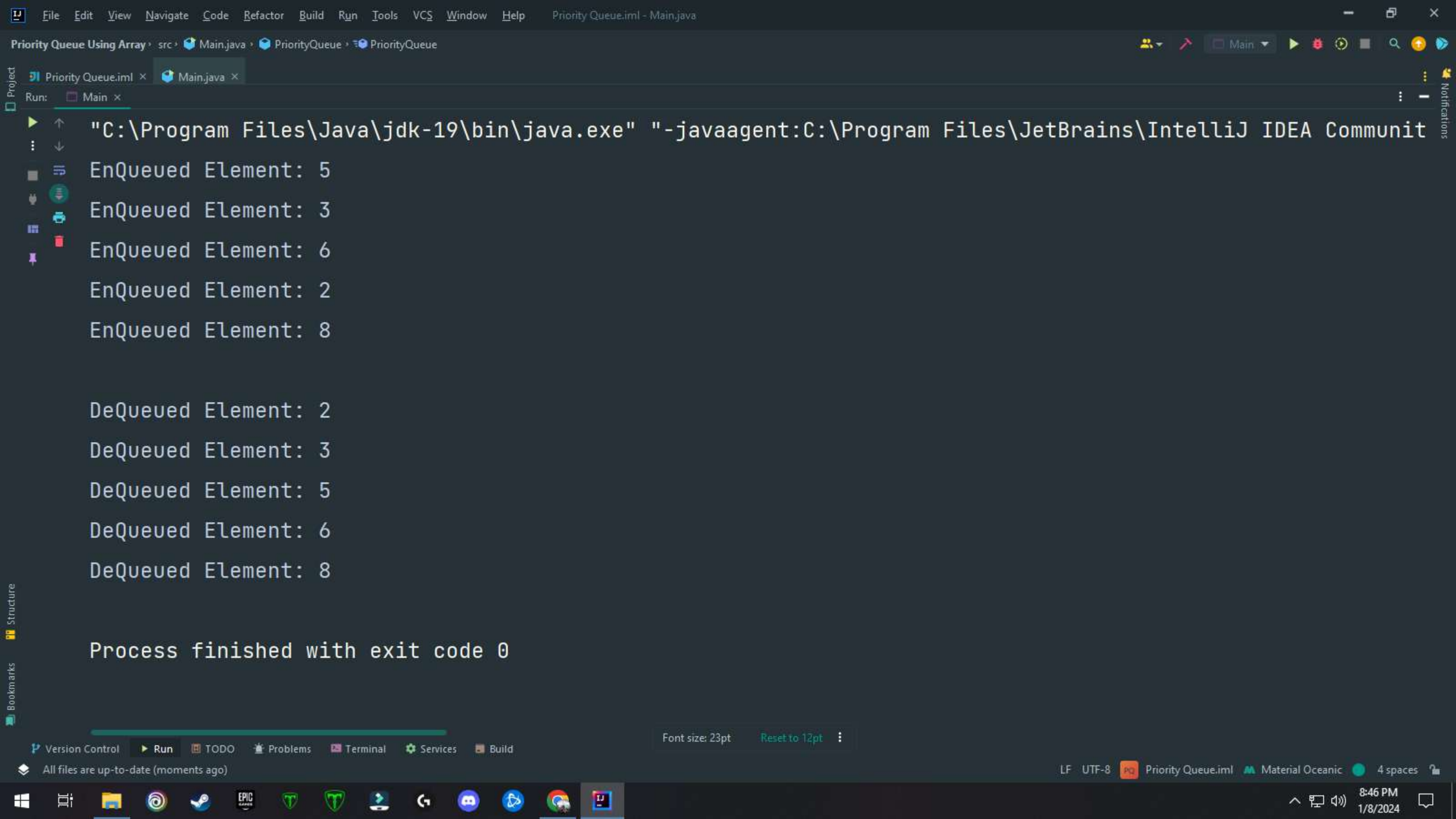
Structure
Bookmarks

Version Control Run TODO Problems Terminal Services Build
Build completed successfully in 2 sec, 1 ms (moments ago)
8:26 LF UTF-8 PQ PriorityQueue.iml Material Oceanic 4 spaces
8:45 PM 1/8/2024
```





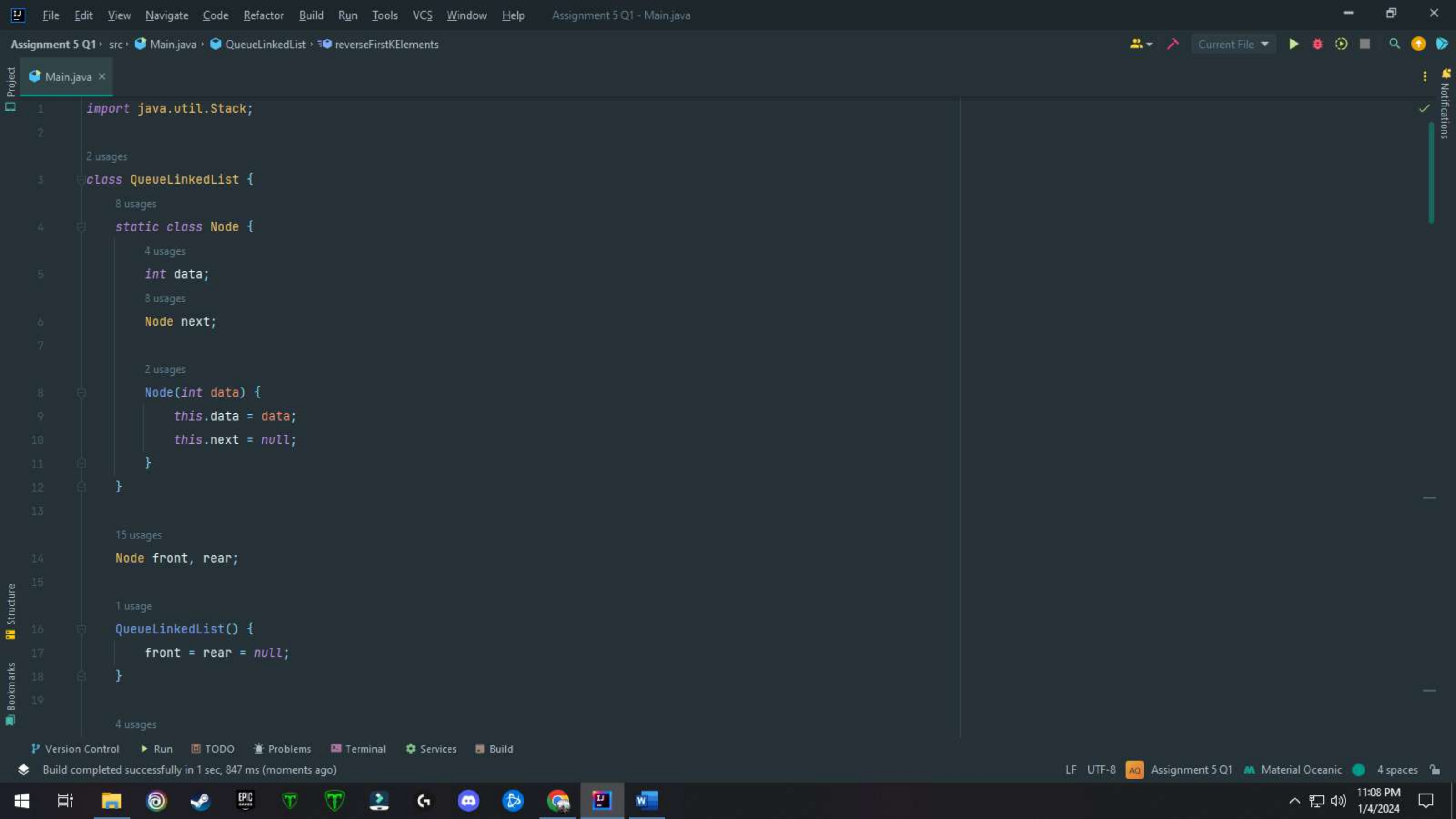




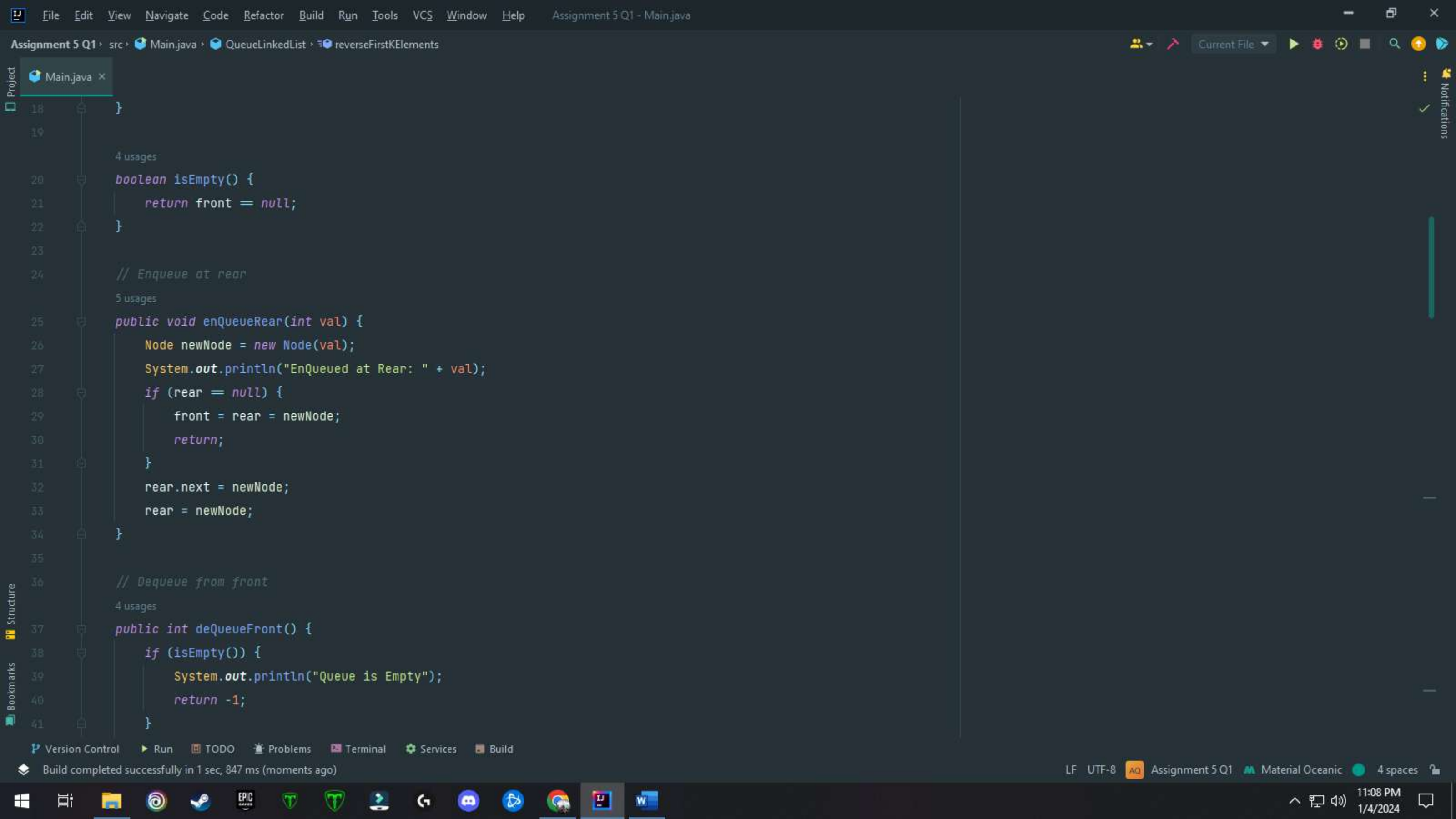
```
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Communit
EnQueued Element: 5
EnQueued Element: 3
EnQueued Element: 6
EnQueued Element: 2
EnQueued Element: 8

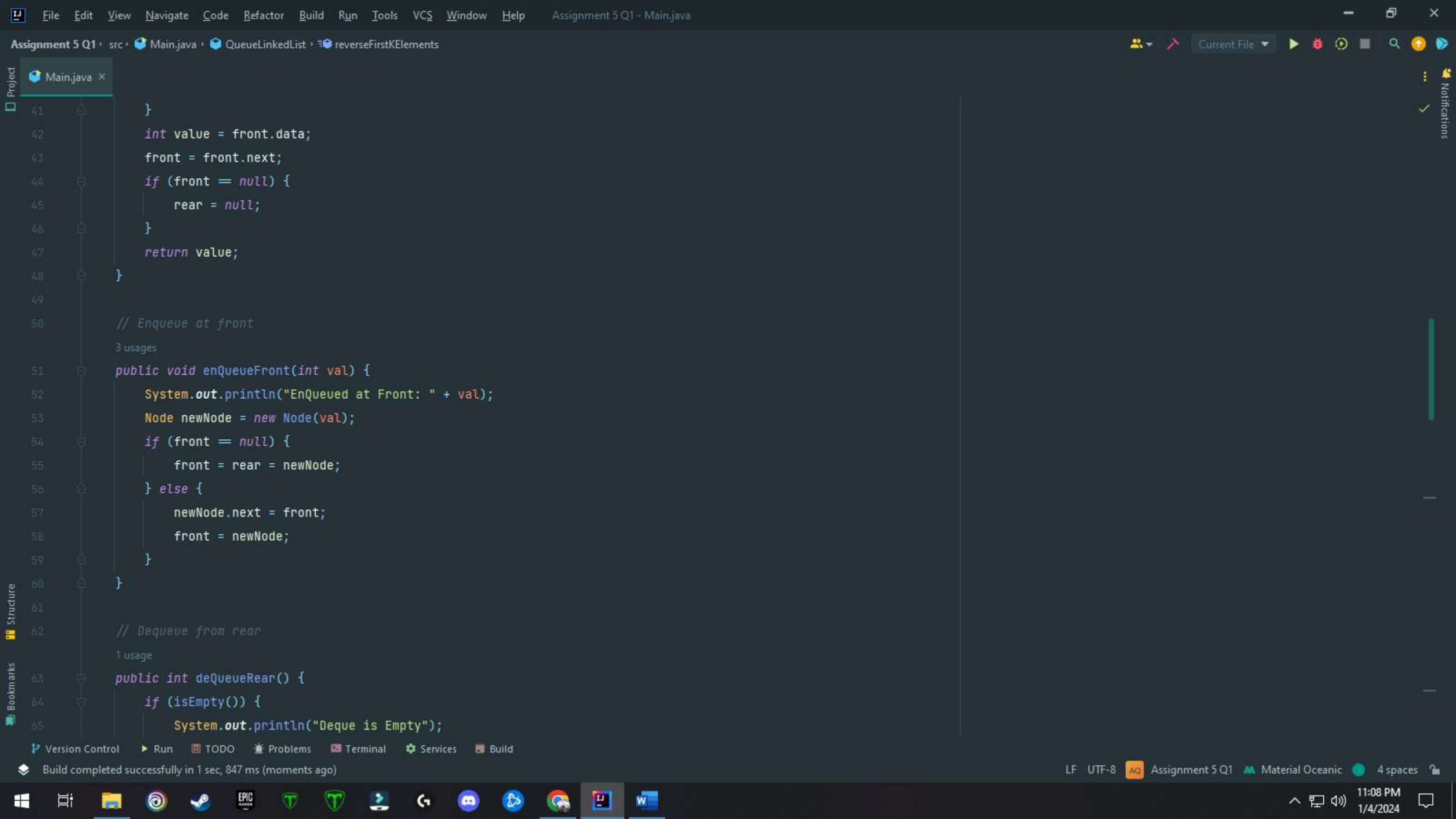
DeQueued Element: 2
DeQueued Element: 3
DeQueued Element: 5
DeQueued Element: 6
DeQueued Element: 8

Process finished with exit code 0
```



```
1 import java.util.Stack;
2
3 class QueueLinkedList {
4     static class Node {
5         int data;
6         Node next;
7
8         Node(int data) {
9             this.data = data;
10            this.next = null;
11        }
12    }
13
14    Node front, rear;
15
16    QueueLinkedList() {
17        front = rear = null;
18    }
19
20 }
```





```
41     }
42     int value = front.data;
43     front = front.next;
44     if (front == null) {
45         rear = null;
46     }
47     return value;
48 }
49
50 // Enqueue at front
51 3 usages
52 public void enqueueFront(int val) {
53     System.out.println("EnQueued at Front: " + val);
54     Node newNode = new Node(val);
55     if (front == null) {
56         front = rear = newNode;
57     } else {
58         newNode.next = front;
59         front = newNode;
60     }
61 }
62
63 // Dequeue from rear
64 1 usage
65 public int dequeueRear() {
66     if (isEmpty()) {
67         System.out.println("Deque is Empty");
68     }
69 }
```


FileEditViewNavigateCodeRefactorBuildRunToolsVCSWindowHelpAssignment 5 Q1 - Main.java

Assignment 5 Q1srcMain.javaQueueLinkedListreverseFirstKElements

ProjectMain.java

6566676869707172737475767778798081828384858687888990

```
        System.out.println("Deque is Empty");
        return -1;
    }

    if (front == rear) {
        int value = rear.data;
        front = rear = null;
        return value;
    }

    Node current = front;
    while (current.next != rear) {
        current = current.next;
    }

    int value = rear.data;
    rear = current;
    rear.next = null;
    return value;
}

// Reverse the first K elements of the queue
1 usage

public void reverseFirstKElements(int k) {
    if (isEmpty() || k > size() || k <= 0) {
        System.out.println("Invalid operation or Queue is empty");
        return;
    }

    Stack<Integer> stack = new Stack<>();
```

Structure

Bookmarks

Version ControlRunTODOProblemsTerminalServicesBuild

Build completed successfully in 1 sec, 847 ms (moments ago)

LFUTF-8AQAssignment 5 Q1Material Oceanic4 spaces

11:08 PM1/4/2024

