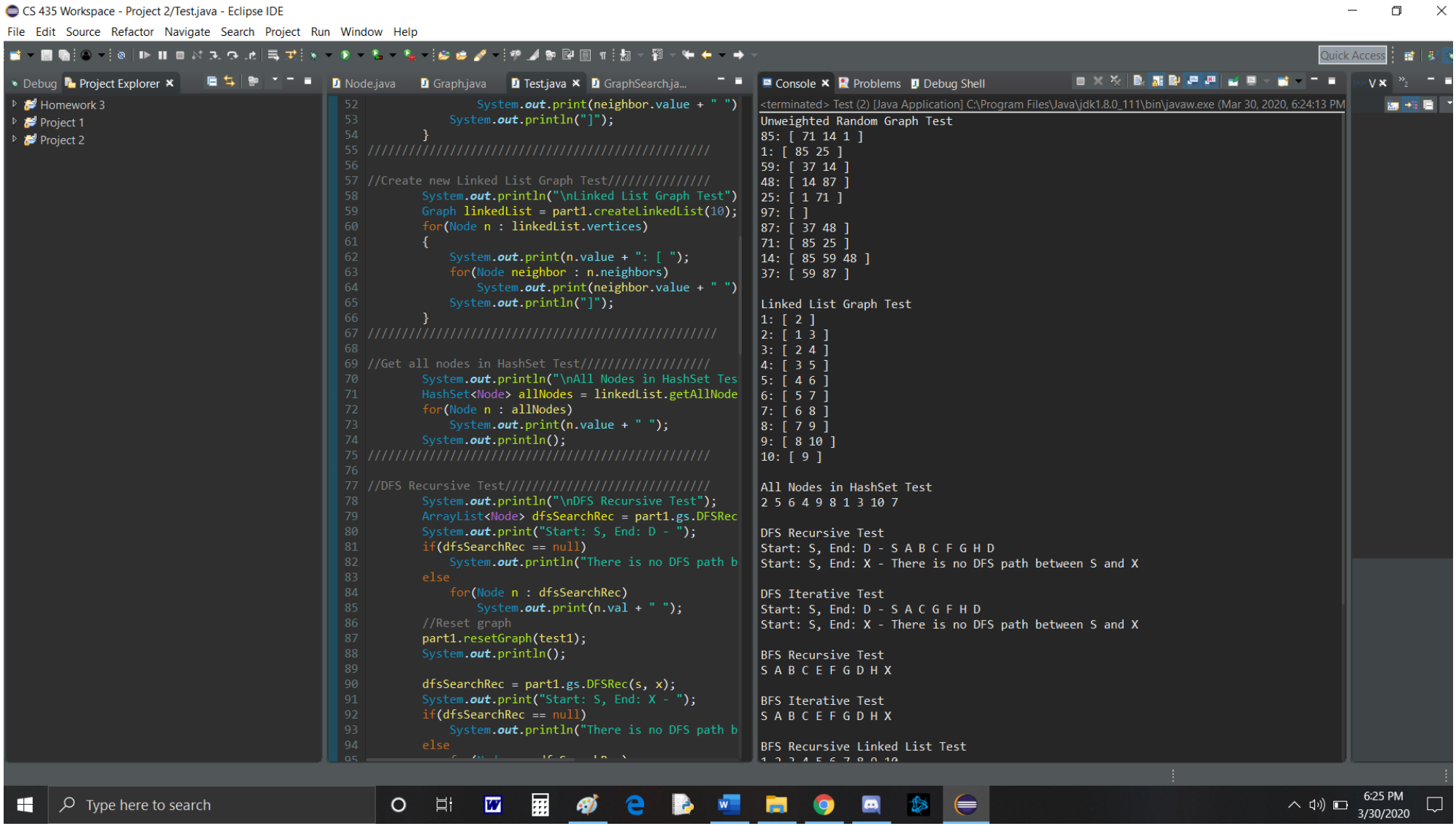
Question File Locations

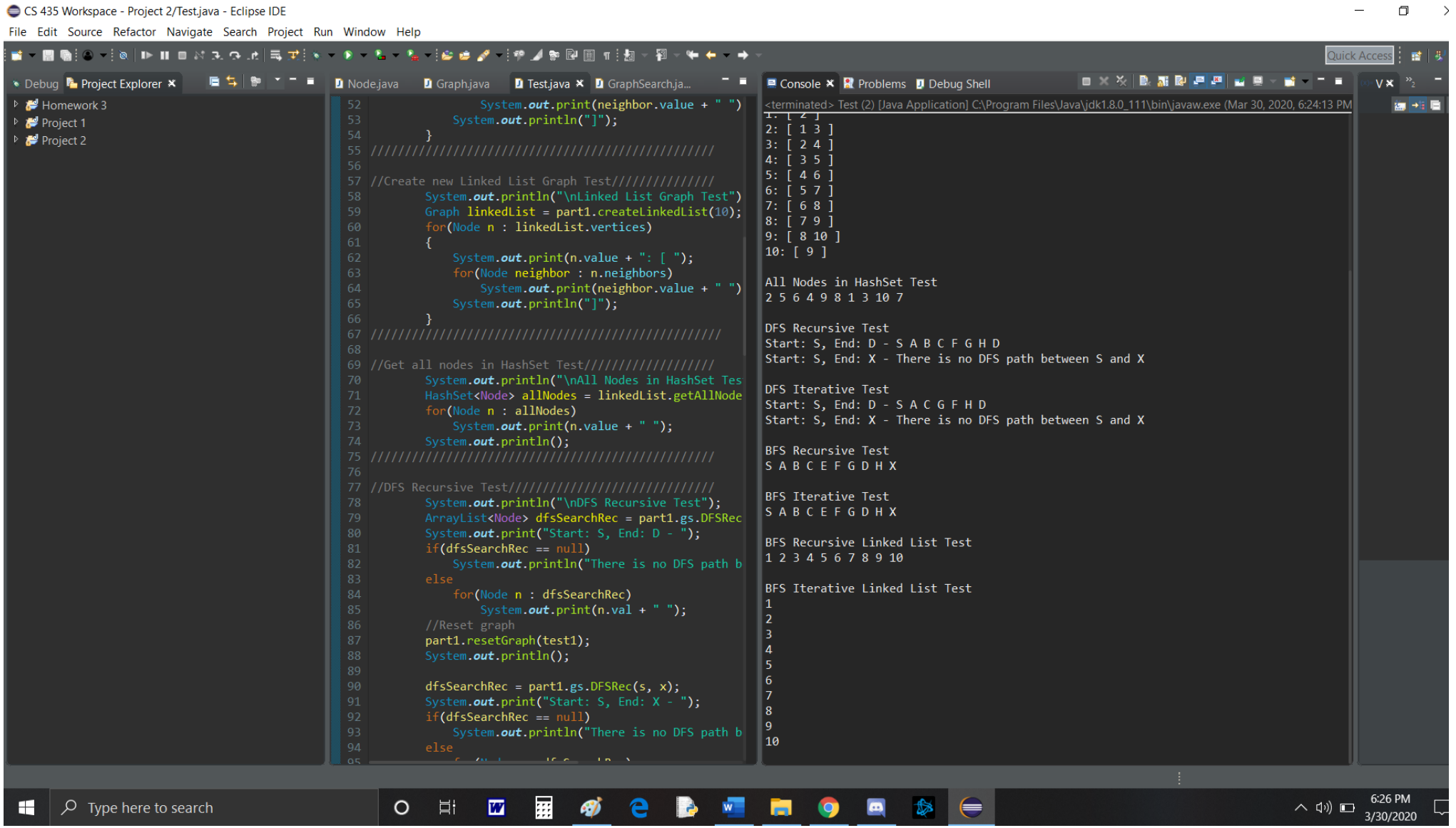
Question 3 – Traverse This Town
- a. Graph.java
- b. Test.java
- c. Test.java
- d. GraphSearch.java
- e. GraphSearch.java
- f. GraphSearch.java
- g. GraphSearch.java
- h. Test.java

Question 4 – Thank U, Vertext
- b. DirectedGraph.java
- c. Test.java
- d. TopSort.java
- e. TopSort.java

Question 5 – Uno, Do', Cuatro, I Node You Want Me
- b. WeightedGraph.java
- c. Test.java
- d. Test.java
- e. Test.java

Question 6 – When You Wish Upon A*
- a. GridGraph.java
- b. Test.java
- d. Test.java


CS 435 Workspace - Project 2/Test.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
Debug
Project Explorer
Homework 3
Project 1
Project 2
Node.java
Graph.java
Test.java
GraphSearch.ja...
System.out.print(neighbor.value + " ")
System.out.println("]");
}
//Create new Linked List Graph Test
System.out.println("\nLinked List Graph Test")
Graph linkedList = part1.createLinkedList(10);
for(Node n : linkedList.vertices)
{
System.out.print(n.value + ": [");
for(Node neighbor : n.neighbors)
System.out.print(neighbor.value + " ")
System.out.println("]");
}
//Get all nodes in HashSet Test
System.out.println("\nAll Nodes in HashSet Tes
HashSet<Node> allNodes = linkedList.getAllNode
for(Node n : allNodes)
System.out.print(n.value + " ");
System.out.println();
//DFS Recursive Test
System.out.println("\nDFS Recursive Test");
ArrayList<Node> dfsSearchRec = part1.gs.DFSRec
System.out.print("Start: S, End: D - ");
if(dfsSearchRec == null)
System.out.println("There is no DFS path b
else
for(Node n : dfsSearchRec)
System.out.print(n.val + " ");
//Reset graph
part1.resetGraph(test1);
System.out.println();
dfsSearchRec = part1.gs.DFSRec(s, x);
System.out.print("Start: S, End: X - ");
if(dfsSearchRec == null)
System.out.println("There is no DFS path b
else
Console
Problems
Debug Shell
<terminated> Test (2) [Java Application] C:\Program Files\Java\jdk1.8.0_111\bin\javaw.exe (Mar 30, 2020, 6:24:13 PM
Unweighted Random Graph Test
85: [71 14 1]
1: [85 25]
59: [37 14]
48: [14 87]
25: [1 71]
97: [ ]
87: [37 48]
71: [85 25]
14: [85 59 48]
37: [59 87]
Linked List Graph Test
1: [2]
2: [1 3]
3: [2 4]
4: [3 5]
5: [4 6]
6: [5 7]
7: [6 8]
8: [7 9]
9: [8 10]
10: [9]
All Nodes in HashSet Test
2 5 6 4 9 8 1 3 10 7
DFS Recursive Test
Start: S, End: D - S A B C F G H D
Start: S, End: X - There is no DFS path between S and X
DFS Iterative Test
Start: S, End: D - S A C G F H D
Start: S, End: X - There is no DFS path between S and X
BFS Recursive Test
S A B C E F G D H X
BFS Iterative Test
S A B C E F G D H X
BFS Recursive Linked List Test
Type here to search
6:25 PM
3/30/2020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3: [2 4]
4: [3 5]
5: [4 6]
6: [5 7]
7: [6 8]
8: [7 9]
9: [8 10]
10: [9]
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Start: S, End: D - S A C G F H D
Start: S, End: X - There is no DFS path between S and X
BFS Recursive Test
S A B C E F G D H X
BFS Iterative Test
S A B C E F G D H X
BFS Recursive Linked List Test
1 2 3 4 5 6 7 8 9 10
BFS Iterative Linked List Test
1
2
3
4
5
6
7
8
9
10
Type here to search
6:26 PM
3/30/2020