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Test cases are given in test folder located in the project folder ProjectTest1 should include all the unit testing.


Github:

https://github.com/Sgomez47-ASU/CSE464-2023-Sgomez47

Tree Branch BFS:

https://github.com/Sgomez47-ASU/CSE464-2023-Sgomez47/tree/bfs

Tree Branch DFS:

https://github.com/Sgomez47-ASU/CSE464-2023-Sgomez47/tree/dfs

Continuous Integration:

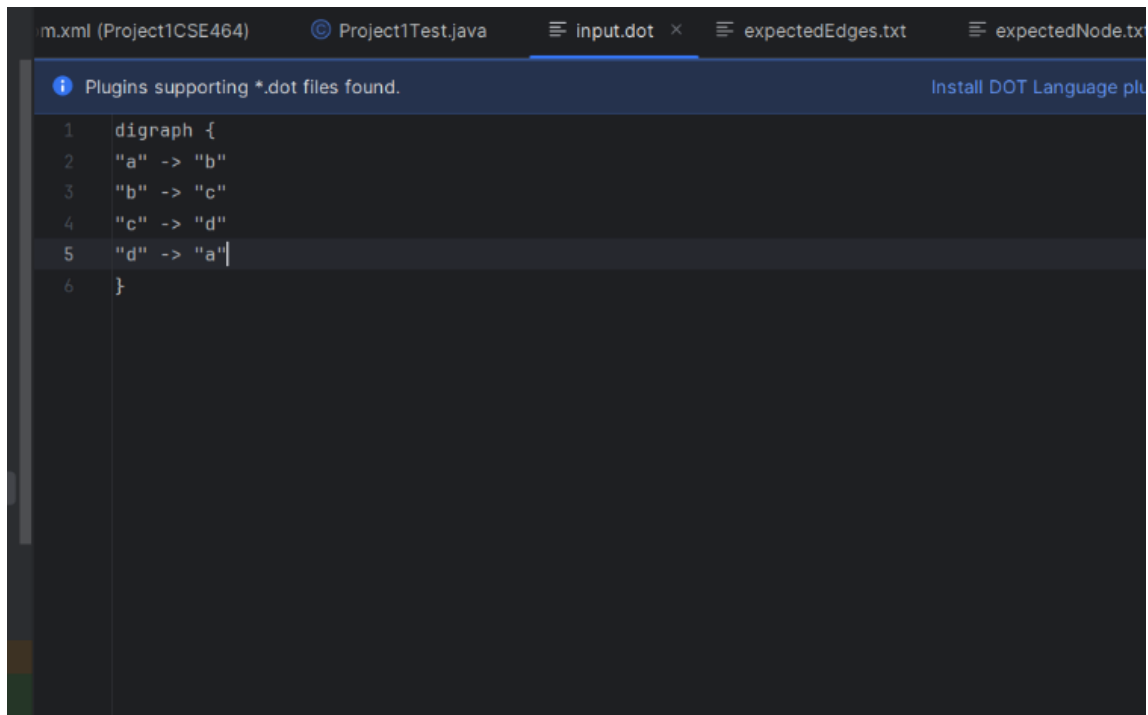https://github.com/Sgomez47-ASU/CSE464-2023-Sgomez47/actions/runs/6765986554

Merge bfs:

https://github.com/Sgomez47-ASU/CSE464-2023-Sgomez47/tree/53df010698f5c4423fff91ff37d12cd14b05034f
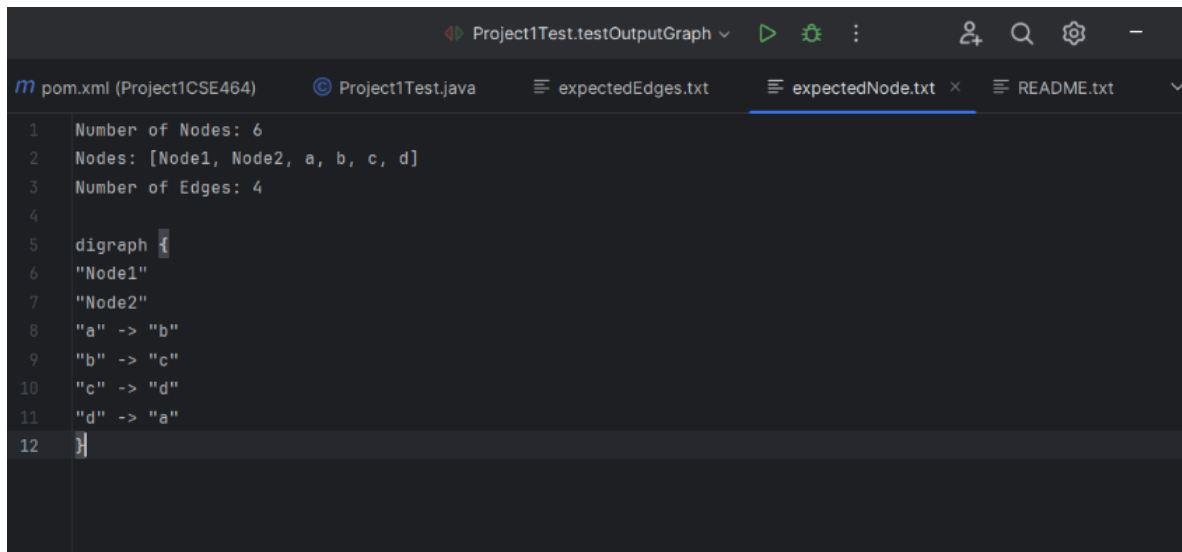



Expected outputs:

Expected for feature 4 testOuputDotGraph

ⓘ Plugins supporting *.dot files found.                    Install DOT Language plu

```
1    digraph {
2    "a" -> "b"
3    "b" -> "c"
4    "c" -> "d"
5    "d" -> "a"
6    }
```
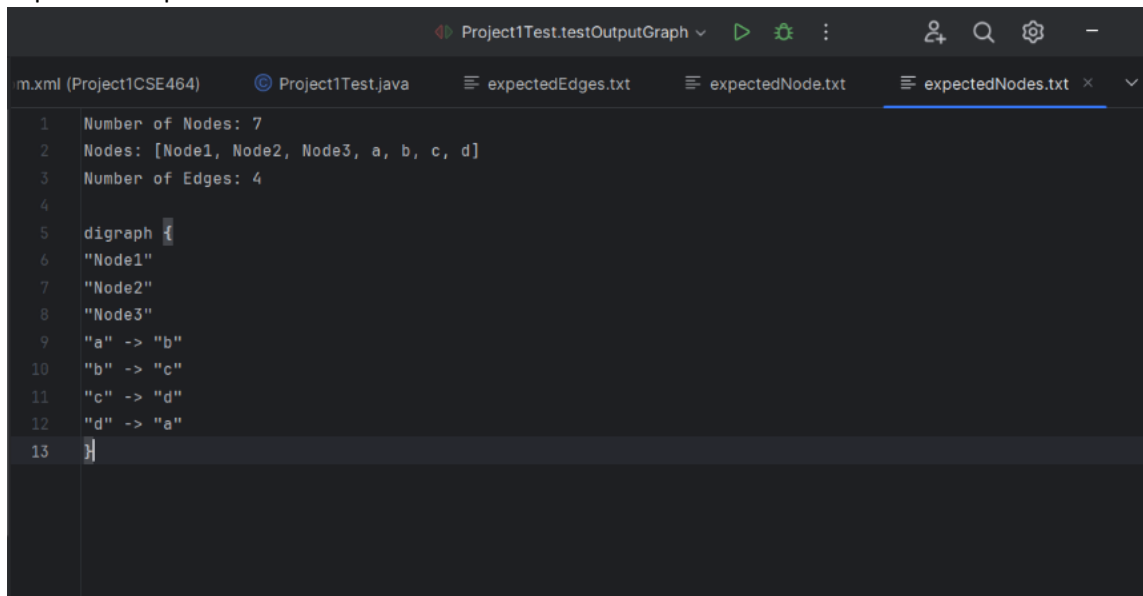
Expected output or feature 2 addNode

```
1    Number of Nodes: 6
2    Nodes: [Node1, Node2, a, b, c, d]
3    Number of Edges: 4
4
5    digraph {
6    "Node1"
7    "Node2"
8    "a" -> "b"
9    "b" -> "c"
10   "c" -> "d"
11   "d" -> "a"
12   }
```

Expected output for feature 2 addNodes

m.xml (Project1CSE464)      © Project1Test.java      ☰ expectedEdges.txt      ☰ expectedNode.txt      ☰ expectedNodes.txt  ×    ⌄

```
1    Number of Nodes: 7
2    Nodes: [Node1, Node2, Node3, a, b, c, d]
3    Number of Edges: 4
4
5    digraph {
6    "Node1"
7    "Node2"
8    "Node3"
9    "a" -> "b"
10   "b" -> "c"
11   "c" -> "d"
12   "d" -> "a"
13   }
```
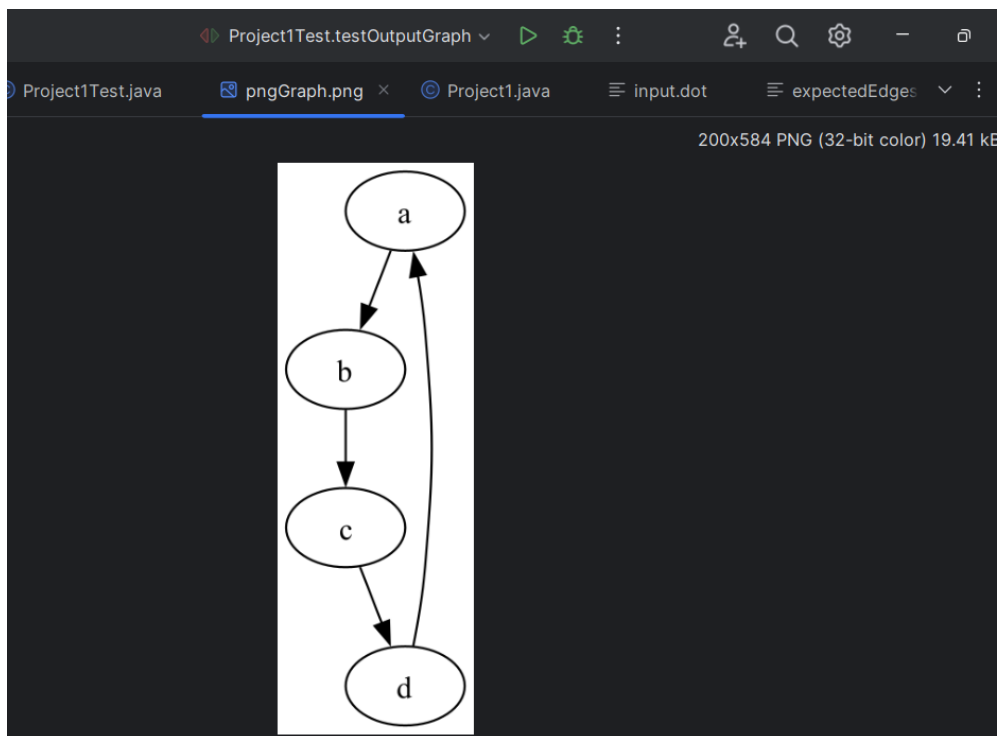
Expected output for feature 3 addEdge

*m* pom.xml (Project1CSE464)    © Project1Test.java    ≣ expectedEdges.txt  ×    ≣ README.txt    © Project1.java    ≣  ✓

```
1    Number of Nodes: 6
2    Nodes: [Node1, Node2, a, b, c, d]
3    Number of Edges: 5
4
5    digraph {
6    "a" -> "b"
7    "b" -> "c"
8    "c" -> "d"
9    "d" -> "a"
10   "Node1" -> "Node2"
11   }
```

Expected output for feature 4 outputGraphics

Project1Test.java    🖼 pngGraph.png  ×    © Project1.java    ≣ input.dot    ≣ expectedEdges  ✓  ⋮

200x584 PNG (32-bit color) 19.41 kB

Expected Output for removeNode

```
Number of Nodes: 6
Nodes: [Node1, Node3, a, b, c, d]
Number of Edges: 4

digraph {
"Node3"
"Node1"
"c" -> "d"
"d" -> "a"
"a" -> "b"
"b" -> "c"
}
```

Expected Output for removeNodes

```
Number of Nodes: 5
Nodes: [Node3, a, b, c, d]
Number of Edges: 4

digraph {
"Node3"
"c" -> "d"
"d" -> "a"
"a" -> "b"
"b" -> "c"
}
```

Expected output for removeEdge

```
Number of Nodes: 6
Nodes: [Node1, Node2, a, b, c, d]
Number of Edges: 5

digraph {
"a" -> "b"
"b" -> "c"
"c" -> "d"
"d" -> "a"
"Node2" -> "Node1"
}
```

**The error files like removeNodeError, removeNodesError, and removeEdgeError should all return the error message into the terminal. As well as just compare the output**

```
e does not exist in graph
```

```
e does not exist in graph
```

```
Edge from a to e does not exist
```

Github Commits:

Feature 1:

https://github.com/Sgomez47-ASU/CSE464-2023-Sgomez47/tree/13da5df15d70f137599f0d0548c08deca4fbdecf

Feature 2:

https://github.com/Sgomez47-ASU/CSE464-2023-Sgomez47/tree/82dfd0cf6478be38794919aa65f49d4b758ccca6

Feature 3:

https://github.com/Sgomez47-ASU/CSE464-2023-Sgomez47/tree/66fa44ecc89a2b389f3e56fd61a6584742bd2ac1

Feature 4:

https://github.com/Sgomez47-ASU/CSE464-2023-Sgomez47/tree/21d75d8c94ba273ff7bbd3bed34fe07e4f2d3cc1

Feature Remove:

https://github.com/Sgomez47-ASU/CSE464-2023-Sgomez47/tree/52c998e285aa93415b7ad7906e72960d2268cbeb