EXPECTED OUTPUTS FOR FEATURES TESTS
Instructions: code works on Maven Package and in the CI when you run it in github, as far as I know there isn't anything special you have to do in order to run the project. The java project was changed to java11 with temurin to allow it to be used with the Java CI on github.

Removenode test:

```java
@Test
public void testremovenode(){
    main s = new main();
    s.parseGraph( filepath: "/test1.dot");
    s.addNode( Label: "E");
    s.tostring();
    s.removeNode( label: "B");
    assertEquals(s.tostring(), actual: "Your vertexes: [A, C, D, E]\n" +
            "Number of vertexes in your graph: 4\n" +
            "Number of edges in your graph: 2\n" +
            "digraph \"D\" {\n" +
            "\"E\"\n" +
            "\"A\" -> \"D\"\n" +
            "\"A\" -> \"C\"\n" +
            "}");
}
```

```
✓ Tests passed: 1 of 1 test – 350 ms
E:\JDK\bin\java.exe ...
Your vertexes: [A, B, C, D, E]
Number of vertexes in your graph: 5
Number of edges in your graph: 3
digraph "D" {
"E"
"A" -> "B"
"A" -> "C"
"A" -> "D"
}
Your vertexes: [A, C, D, E]
Number of vertexes in your graph: 4
Number of edges in your graph: 2
digraph "D" {
"E"
"A" -> "D"
"A" -> "C"
}
```

```
@Test
public void testremovenodeError(){
    main s = new main();
    s.parseGraph( filepath: "/test1.dot");
    s.addNode( Label: "E");
    s.tostring();
    assertEquals(s.removeNode( label: "F"), actual: false);//false means it sends error code
}
  Manuel Navarro +1
@Test
```

✓ Tests passed: 1 of 1 test – 378 ms

```
E:\JDK\bin\java.exe ...
Your vertexes: [A, B, C, D, E]
Number of vertexes in your graph: 5
Number of edges in your graph: 3
digraph "D" {
"E"
"A" -> "B"
"A" -> "C"
"A" -> "D"
}
Error, node does not exist

Process finished with exit code 0
```

removeNodes test:

```
@Test
public void testremovenodes(){
    main s = new main();
    s.parseGraph( filepath: "/test1.dot");
    s.addNode( Label: "E");
    s.tostring();
    String[] testArr = {"B","C","D"};
    s.removeNodes(testArr);
    assertEquals(s.tostring(), actual: "Your vertexes: [A, E]\n" +
            "Number of vertexes in your graph: 2\n" +
            "Number of edges in your graph: 0\n" +
            "digraph \"D\" {\n" +
            "\"A\"\n" +
            "\"E\"\n" +
            "}");
}
```

✓ Tests passed: 1 of 1 test – 354 ms

```
E:\JDK\bin\java.exe ...
Your vertexes: [A, B, C, D, E]
Number of vertexes in your graph: 5
Number of edges in your graph: 3
digraph "D" {
"E"
"A" -> "B"
"A" -> "C"
"A" -> "D"
}
Your vertexes: [A, E]
Number of vertexes in your graph: 2
Number of edges in your graph: 0
digraph "D" {
"A"
"E"
}

Process finished with exit code 0
```

removeEdge test:

```java
        new *
        @Test
        public void testremovenodeandedges(){
            main s = new main();
            s.parseGraph( filepath: "/test1.dot");
            s.addNode( Label: "E");
            s.addNode( Label: "F");
            s.addEdge( srcLabel: "A", dstLabel: "F");
            s.tostring();
            s.removeNode( label: "B");
            s.removeNode( label: "E");
            s.removeEdge( srcLabel: "A", dstLabel: "C");
            s.removeEdge( srcLabel: "A", dstLabel: "F");
            assertEquals(s.tostring(),  actual: "Your vertexes: [A, C, D, F]\n" +
                    "Number of vertexes in your graph: 4\n" +
                    "Number of edges in your graph: 1\n" +
                    "digraph \"D\" {\n" +
                    "\"F\"\n" +
                    "\"C\"\n" +
                    "\"A\" -> \"D\"\n" +
                    "}");
        }
    Manuel Navarro +1
```

✓ Tests passed: **1** of 1 test – 380 ms

```
"A" -> "C"
"A" -> "D"
}
Your vertexes: [A, C, D, F]
Number of vertexes in your graph: 4
Number of edges in your graph: 1
digraph "D" {
"F"
"C"
"A" -> "D"
}
```

First time running the CI successfully

First merge BFS branch to master

Bfs #2

Merged ryannav merged 5 commits into `master` from `bfs` 3 minutes ago

💬 Conversation 0　　-o- Commits 5　　☑ Checks 1　　⬆ Files changed 8　　　+117 −5 ■■■■□

ryannav commented 11 minutes ago　　···

RErequesting for metge bfs to master because java was set to 14 instead of 11

☺

ryannav and others added 5 commits 1 hour ago

-o- ⊕ for BFS branch　　　　　　　　　　　　　　　　　　　1fef5eb

-o- ⊕ for BFS branch　　　　　　　　　　　　　　　✗ 1322c1c

-o- ⊕ Update pom.xml　　　　　　　　　　Verified　✗ 476dcc3

-o- ⊕ for BFS branch　　　　　　　　　　　　　　　　　　32df034

-o- ⊕ Merge remote-tracking branch 'origin/bfs' into bfs　✓ 96d8694

Reviewers　⚙
No reviews

Assignees　⚙
No one—assign yourself

Labels　⚙
None yet

Projects　⚙
None yet

Milestone　⚙
No milestone

Attempt to initially merge DFS to main failed

Needs to merge dfs with the already merged master

☺

ryannav added 2 commits 31 minutes ago

-o- ⊕ for BFS branch　　　　　　　　　　　　　　　　　　103a964

-o- ⊕ for BFS branch　　　　　　　　　　　　　　　　　　107e592

Add more commits by pushing to the **dfs** branch on **ryannav/CSE-464-2023-mrnavar2**.

⑃　　⚠ **This branch has conflicts that must be resolved**　　　Resolve conflicts ⑦
　　　Use the command line to resolve conflicts before continuing.
　　Conflicting files

　　src/main/java/Path.java

　　target/classes/Path.class

Merge pull request ▾　　You can also open this in GitHub Desktop or view command line instructions.

Fixed merge conflict and merged the DFS branch to main

Merge DFS to the Master #4

`Edit` `<> Code ▾`

🔀 **Merged** ryannav merged 7 commits into `master` from `dfs` 🗎 now

| 💬 Conversation 0 | ◦ Commits 7 | ☑ Checks 1 | ⬆ Files changed 7 |

+57 −7 ■■■■□

ryannav commented 20 minutes ago   `...`

No description provided.

☺

| Reviewers | ⚙ |
| No reviews |

ryannav added 7 commits 1 hour ago

◦	🔵 for BFS branch	103a964
◦	🔵 for BFS branch	107e592
◦	🔵 for DFS BRANCH TO MERGE	c43dcd6
◦	🔵 for DFS BRANCH TO MERGE	4a29324
◦	🔵 Merge remote-tracking branch 'origin/master' into dfs ⋯	e2a759b
◦	🔵 Merged the files	✕ da41409
◦	🔵 Added back missing dependency	✓ 0f2bdb7

🔀 🔵 **ryannav** merged commit **f92b4d1** into `master` now   `View details` `Revert`
1 check passed

| Assignees | ⚙ |
| No one—assign yourself |

| Labels | ⚙ |
| None yet |

| Projects | ⚙ |
| None yet |

| Milestone | ⚙ |
| No milestone |

| Development | ⚙ |
| Successfully merging this pull request may close these issues. |
| None yet |

| Notifications | Customize |
| 🔕 Unsubscribe |
| You're receiving notifications because you're watching this repository. |

🔀 **Pull request successfully merged and closed**   `Delete branch`
You're all set—the `dfs` branch can be safely deleted.

BFS TESTS:

```java
    @Test
    public void testBFS(){
        main s = new main();
        s.parseGraph( filepath: "/test1.dot");
        s.addNode( Label: "E");
        s.addEdge( srcLabel: "B", dstLabel: "E");
        s.GraphSearch(s.getNode( label: "A"),s.getNode( label: "E"), main.Algorithm.BFS);
        assertEquals( expected: "A->B->E",s.SearchtoString(s.getNode( label: "A"),s.getNode( label: "E"),main.Algorithm.BFS) );
    }

}
```

✓ Tests passed: 1 of 1 test – 356 ms

E:\JDK\bin\java.exe ...
Running search through BFS
A->B->E

Process finished with exit code 0

DFS TESTS:

Link to commits:

Added deltenode, deletenodes and deleteedge:

https://github.com/ryannav/CSE-464-2023-mrnavar2/commit/ac9227ebe4a14fe4d862fa22dc37c1503a0b8e8f

Got CI working:

https://github.com/ryannav/CSE-464-2023-mrnavar2/commit/c33ada4b7d2d998ae7e524949c1354a274155efb

BFS BRANCH:

https://github.com/ryannav/CSE-464-2023-mrnavar2/commit/32df03409db2b8216b81de76588ca1864137fad2

DFS BRANCH:

https://github.com/ryannav/CSE-464-2023-mrnavar2/commit/c43dcd6af67e0bcf7ca956a3b5324888f92b43f8

BFS MERGE:

https://github.com/ryannav/CSE-464-2023-mrnavar2/commit/6ac403d138e5d6041bf98b43052196fb76235399

DFS MERGE:

https://github.com/ryannav/CSE-464-2023-mrnavar2/commit/6ac403d138e5d6041bf98b43052196fb76235399

Link to master of final product:

https://github.com/ryannav/CSE-464-2023-mrnavar2/commit/ea31389eaff1b89e1676c1409696e366a1a0af5d