Github Repository: EbenTowne/CSE464-EbenTowne (github.com)

Shared with the following TAs and Graders:

- TA Liangyi Huang: liangyigrade/mehuangliang+grade@gmail.com
- Grader Kavya Chandrika Vempalli: kavyachandrikavempalli
- Grader Adwaith Chittavally Dugge Gowda: adwaithed

Project outline states the professor should be invited as a collaborator, but there is no profile for the professor to add to the lost of Github collaborators

How to run my code:

- Download the zip file, either from Canvas or Github.
- Navigate to the repository folder on terminal (via "cd CSE464-EbenTowne-master" command).
- Run "mvn package" to compile and run the unit tests for the code.
 - Can also run "mvn test" to run unit tests.
- Expected Output:

When running "mvn package" or "mvn test", each unit test will run and will print out the status/output of each unit test's execution. The printed information will print before the expected output listed above.

parseGraph(String filepath):

```
Graph initialized
Graph has been successfully parsed
```

toString():

```
Graph initialized
Graph has been successfully parsed
Node List:
Ь
c
ď
e
Edge List:
a -> b
a -> c
b -> d
c -> d
c -> e
e -> a
a -> d
Total edge count: 7
```

outputGraph():

```
Graph initialized
Graph has been successfully parsed
Node List:
а
Ь
c
d
e
Edge List:
a -> b
a -> c
b -> d
c -> d
c -> e
e -> a
a -> d
Total edge count: 7
Output successfully written to output.txt
```

addNode(String label) and addNodes(String[] labels):

addNode and addNodes are both tested in the same unit test (addNodeTest)

```
Graph initialized
Graph has been successfully parsed
Node added: v
Node added: x
Node added: y
Node added: z
List of nodes have been added successfully
```

addEdge(String srcLabel, String dstLabel):

addNode is also tested in the addEdge unit test when either the source node and/or the destination node are not present in the list of nodes

```
Graph initialized
Graph has been successfully parsed
Source node 'b' has been added
Destination node 'c' has been added
Edge 'b->c' has been added
Node added: f
Source node 'f' has been added
Node added: g
Destination node 'g' has been added
Edge 'f->g' has been added
```

outputDOTGraph(String path):

```
Graph initialized
Graph has been successfully parsed
DOT Graph has been created and written to output.dot
```

outputGraphics(String path, String format):

Only supports .png files

```
Graph initialized
Graph has been successfully parsed
DOT Graph Image has been successfully created and written to output.png
```

All links to commits are listed in sequential order (first commit -> last commit) List of Github Commit Links:

```
Feature 1: Feature 1 · EbenTowne/CSE464-EbenTowne@421be30 (github.com)
Feature 2: Feature 2 · EbenTowne/CSE464-EbenTowne@2468577 (github.com)
Feature 3: Feature 3 · EbenTowne/CSE464-EbenTowne@25d3e6d (github.com)
Feature 4: Feature 4 · EbenTowne/CSE464-EbenTowne@667e436 (github.com)
```

Adding Maven Support:

- <u>Implementing Maven Iteration 1 · EbenTowne/CSE464-EbenTowne@3fc4aa4</u> (github.com)
- Update pom.xml file · EbenTowne/CSE464-EbenTowne@b461db5 (github.com)
- <u>Update pom.xml file pt2 · EbenTowne/CSE464-EbenTowne@d341e26 (github.com)</u>
- <u>Update pom.xml file pt3 · EbenTowne/CSE464-EbenTowne@f7c3a70 (github.com)</u>

Fine-Tuning Unit Test Cases:

- <u>Update test file · EbenTowne/CSE464-EbenTowne@bf56739 (github.com)</u>
- <u>Update test file · EbenTowne/CSE464-EbenTowne@976fc71 (github.com)</u>
- <u>Update test file · EbenTowne/CSE464-EbenTowne@bd02ecb (github.com)</u>

Fixing Small Issues:

- Added print out statements · EbenTowne/CSE464-EbenTowne@abeb5f0 (github.com)
- <u>Making pdf files, switch to png files · EbenTowne/CSE464-EbenTowne@2f653c5 (github.com)</u>