

Name: *John Maes*

Assignment: 9

Submission and Compilation

- Builds and Compiles Successfully

Complete & Correct: 15/25

- Unit Test Results:

```
[=====] Running 14 tests from 2 test cases.
[-----] Global test environment set-up.
[-----] 7 tests from AdjacencyListTest
[ RUN      ] AdjacencyListTest.BasicMaxIndependentSet
[ OK       ] AdjacencyListTest.BasicMaxIndependentSet (0 ms)
[ RUN      ] AdjacencyListTest.SmallMaxIndependentSet
[ OK       ] AdjacencyListTest.SmallMaxIndependentSet (0 ms)
[ RUN      ] AdjacencyListTest.MediumMaxIndependentSet
[ OK       ] AdjacencyListTest.MediumMaxIndependentSet (0 ms)
[ RUN      ] AdjacencyListTest.MaxIndependentSetTies
[ OK       ] AdjacencyListTest.MaxIndependentSetTies (0 ms)
[ RUN      ] AdjacencyListTest.BasicAllPairsShortestPaths
0 and 0
0 and 1
2147483647
0 and 3
2147483647
2147483647
1 and 1
1 and 2
2147483647
2147483647
2147483647
2147483647
2 and 2
2147483647
2147483647
2147483647
2147483647
3 and 3
3 and 4
2147483647
2147483647
4 and 2
2147483647
4 and 4
updated to 2147483647
updated to 2147483647
updated to 2147483647
updated to 2147483647
updated to 0
0 -10 -20 2 -2
inf 0 -10 inf inf
inf inf 0 inf inf
inf inf 1 0 -4
0 -10 -20 2 0
/home/bowers/svn/bowers/teaching/cpsc450-s21/grading/HW-9/hw9-beffypuffs/hw9_tests.cpp:150: Failure
Expected: 5
To be equal to: weights[4][2]
Which is: -20
[ FAILED   ] AdjacencyListTest.BasicAllPairsShortestPaths (0 ms)
[ RUN      ] AdjacencyListTest.NoPaths
0 and 0
2147483647
2147483647
```

```

2147483647
2147483647
2147483647
1 and 1
2147483647
2147483647
2147483647
2147483647
2147483647
2 and 2
2147483647
2147483647
2147483647
2147483647
2147483647
3 and 3
2147483647
2147483647
2147483647
2147483647
2147483647
4 and 4
updated to 2147483647
updated to 2147483647
updated to 2147483647
updated to 2147483647
updated to 0
0 inf inf inf inf
inf 0 inf inf inf
inf inf 0 inf inf
inf inf inf 0 inf
0 inf inf inf 0
/home/bowers/svn/bowers/teaching/cpsc450-s21/grading/HW-9/hw9-beffypuffs/hw9_tests.cpp:172: Failure
    Expected: std::numeric_limits<int>::max()
    Which is: 2147483647
To be equal to: weights[i][j]
    Which is: 0
[ FAILED ] AdjacencyListTest.NoPaths (1 ms)
[ RUN     ] AdjacencyListTest.NegativeCycles
0 and 0
0 and 1
2147483647
2147483647
2147483647
1 and 1
1 and 2
2147483647
2 and 0
2147483647
2 and 2
2147483647
2147483647
2147483647
2147483647
3 and 3
/home/bowers/svn/bowers/teaching/cpsc450-s21/grading/HW-9/hw9-beffypuffs/hw9_tests.cpp:185: Failure
    Expected: false
To be equal to: g.all_pairs_shortest_paths(weights)
    Which is: true
[ FAILED ] AdjacencyListTest.NegativeCycles (0 ms)
[-----] 7 tests from AdjacencyListTest (1 ms total)

[-----] 7 tests from AdjacencyMatrixTest
[ RUN     ] AdjacencyMatrixTest.BasicMaxIndependentSet
[ OK      ] AdjacencyMatrixTest.BasicMaxIndependentSet (0 ms)
[ RUN     ] AdjacencyMatrixTest.SmallMaxIndependentSet
[ OK      ] AdjacencyMatrixTest.SmallMaxIndependentSet (0 ms)
[ RUN     ] AdjacencyMatrixTest.MediumMaxIndependentSet
[ OK      ] AdjacencyMatrixTest.MediumMaxIndependentSet (0 ms)
[ RUN     ] AdjacencyMatrixTest.MaxIndependentSetTies
[ OK      ] AdjacencyMatrixTest.MaxIndependentSetTies (0 ms)
[ RUN     ] AdjacencyMatrixTest.BasicAllPairsShortestPaths
0 and 0
0 and 1
2147483647
0 and 3
2147483647
2147483647
1 and 1
1 and 2
2147483647

```

```

2147483647
2147483647
2147483647
2 and 2
2147483647
2147483647
2147483647
2147483647
2147483647
3 and 3
3 and 4
2147483647
2147483647
4 and 2
2147483647
4 and 4
updated to 2147483647
updated to 2147483647
updated to 2147483647
updated to 2147483647
updated to 0
0 -10 -20 2 -2
inf 0 -10 inf inf
inf inf 0 inf inf
inf inf 1 0 -4
0 -10 -20 2 0
/home/bowers/svn/bowers/teaching/cpsc450-s21/grading/HW-9/hw9-beffypuffs/hw9_tests.cpp:290: Failure
    Expected: 5
To be equal to: weights[4][2]
    Which is: -20
[ FAILED ] AdjacencyMatrixTest.BasicAllPairsShortestPaths (0 ms)
[ RUN ] AdjacencyMatrixTest.NoPaths
0 and 0
2147483647
2147483647
2147483647
2147483647
2147483647
1 and 1
2147483647
2147483647
2147483647
2147483647
2147483647
2147483647
2 and 2
2147483647
2147483647
2147483647
2147483647
2147483647
2147483647
3 and 3
2147483647
2147483647
2147483647
2147483647
2147483647
4 and 4
updated to 2147483647
updated to 2147483647
updated to 2147483647
updated to 2147483647
updated to 0
0 inf inf inf inf
inf 0 inf inf inf
inf inf 0 inf inf
inf inf inf 0 inf
0 inf inf inf 0
/home/bowers/svn/bowers/teaching/cpsc450-s21/grading/HW-9/hw9-beffypuffs/hw9_tests.cpp:312: Failure
    Expected: std::numeric_limits<int>::max()
    Which is: 2147483647
To be equal to: weights[i][j]
    Which is: 0
[ FAILED ] AdjacencyMatrixTest.NoPaths (0 ms)
[ RUN ] AdjacencyMatrixTest.NegativeCycles
0 and 0
0 and 1
2147483647
2147483647
2147483647
1 and 1
1 and 2

```

```

2147483647
2 and 0
2147483647
2 and 2
2147483647
2147483647
2147483647
2147483647
3 and 3
/home/bowers/svn/bowers/teaching/cpsc450-s21/grading/HW-9/hw9-beffypuffs/hw9_tests.cpp:325: Failure
    Expected: false
To be equal to: g.all_pairs_shortest_paths(weights)
    Which is: true
[ FAILED ] AdjacencyMatrixTest.NegativeCycles (0 ms)
[-----] 7 tests from AdjacencyMatrixTest (0 ms total)

[-----] Global test environment tear-down
[=====] 14 tests from 2 test cases ran. (1 ms total)
[ PASSED ] 8 tests.
[ FAILED ] 6 tests, listed below:
[ FAILED ] AdjacencyListTest.BasicAllPairsShortestPaths
[ FAILED ] AdjacencyListTest.NoPaths
[ FAILED ] AdjacencyListTest.NegativeCycles
[ FAILED ] AdjacencyMatrixTest.BasicAllPairsShortestPaths
[ FAILED ] AdjacencyMatrixTest.NoPaths
[ FAILED ] AdjacencyMatrixTest.NegativeCycles

6 FAILED TESTS

```

Testing: 3/5

- missing required tests

Format and Comments: 5/5

Total Score: 23/35

- partial credit (since all pairs tests failed)
-