Problem 1a Test Plan

Part a: Y

The expected output and the actual output match up.

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| --- | --- | --- |
| Test input | Expected result | Actual result |
| //create graph and read verticies from the .txt file  Graph myGraph;  myGraph.readGraph("C:\\Temp\\test.txt",-999);  //myGraph.readGraph("C:\\Temp\\test.txt", -999);  myGraph.printGraph();  cout<<endl<<endl;    //test the depth first traversal  cout<<"Depth First Traversal: ";  myGraph.depthFirstTraversal();  cout<<endl;  //test the breadth first traversal  cout<<"Breadth First Traversal: ";  myGraph.breadthFirstTraversal();  cout<<endl;  //test dftAtVertex() for ever vertex in the graph  cout << "dftAtVertex 0: ";  myGraph.dftAtVertex\_(0);  cout << endl;  cout << "dftAtVertex 1: ";  myGraph.dftAtVertex\_(1);  cout << endl;  cout << "dftAtVertex 2: ";  myGraph.dftAtVertex\_(2);  cout << endl;  cout << "dftAtVertex 3: ";  myGraph.dftAtVertex\_(3);  cout << endl;  cout << "dftAtVertex 4: ";  myGraph.dftAtVertex\_(4);  cout << endl; | Graph size 5  Vertex 0: 2 4  Vertex 1: 3  Vertex 2: 3 4  Vertex 3:  Vertex 4: 2 3 4  Depth First Traversal: 0 2 3 4 1  Breadth First Traversal: 0 2 4 3 1  dftAtVertex 0: 0 2 3 4 1  dftAtVertex 1: 1 3 0 2 4  dftAtVertex 2: 2 3 4 0 1  dftAtVertex 3: 3 0 2 4 1  dftAtVertex 4: 4 2 3 0 1 | Graph size 5  Vertex 0: 2 4  Vertex 1: 3  Vertex 2: 3 4  Vertex 3:  Vertex 4: 2 3 4  Depth First Traversal: 0 2 3 4 1  Breadth First Traversal: 0 2 4 3 1  dftAtVertex 0: 0 2 3 4 1  dftAtVertex 1: 1 3 0 2 4  dftAtVertex 2: 2 3 4 0 1  dftAtVertex 3: 3 0 2 4 1  dftAtVertex 4: 4 2 3 0 1 |