Introduction to main()

The sample main function creates the following graph with two connected components:
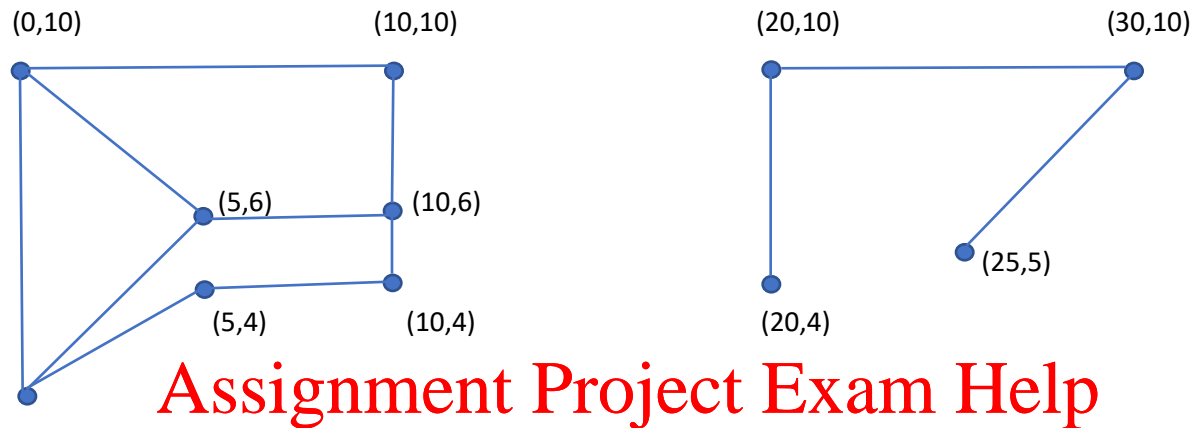
Figure 1: Graph g1

The shortest path between (0,0) and (10,6) is (0,0),(5 _____ ath between (0,0) and (25,5), in which case ShortestPath() does not pri____

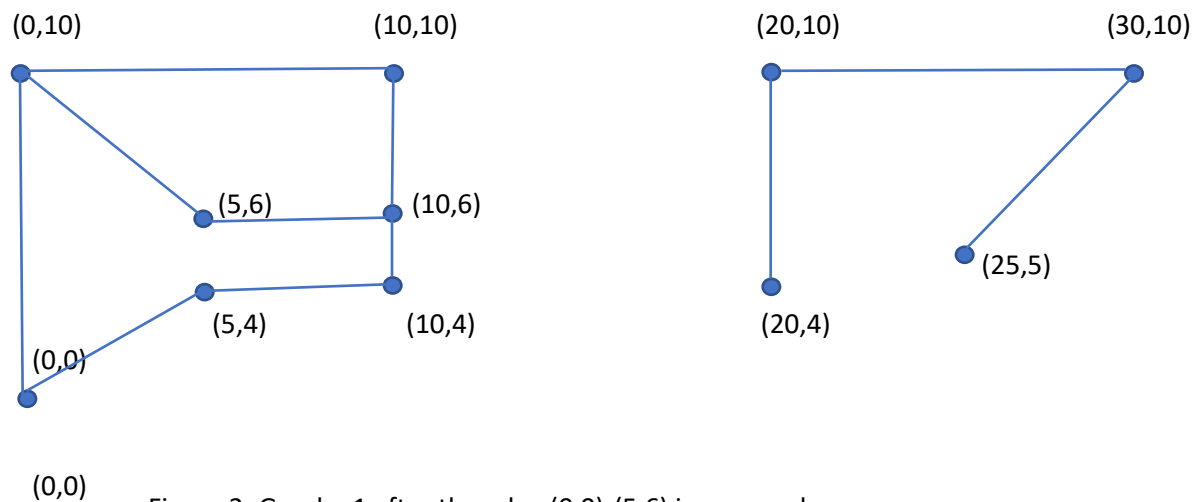After the edge (0,0)-(5,6) is removed, the shortest path between (0,0) and (10,6) is (0,0),(5,4),(10,4),(10,6).

Figure 2: Graph g1 after the edge (0,0)-(5,6) is removed

The output of ReachableVertices() for (0,0) is (0,10),(5,4),(5,6),(10,4),(10,6),(10,10). Notice that the output is dependent on your implementation. The output of ReachableVertices() for (20,4) is (20,10),(25,5),(30,10).

 A sample output of ShowGraph(g1) is (0,0),(0,10) (0,0),(5,4) (0,10),(10,10) (0,10),(5,6) (5,4),(10,4) (10,10), (10,6) (5, 6),(10,6) (10,4), (10,6) (20,4), (20,10) (20,10), (30,10) (30,10),(25,5). Notice that the output is dependent on your implementation.