

Introduction to main()

The sample main function creates the following graph with two connected components:

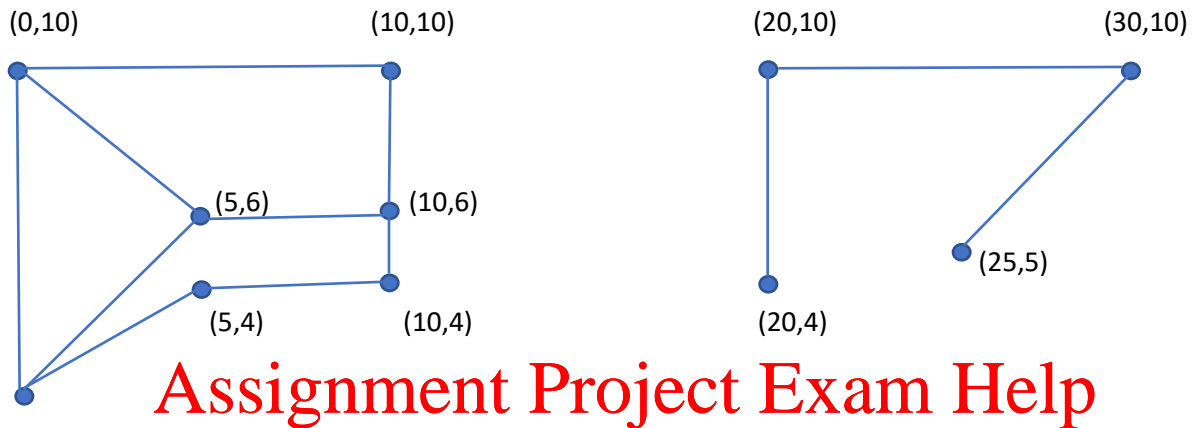


Figure 1: Graph g1

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The shortest path between (0,0) and (10,6) is (0,0), (5,6), (10,6). There is no path between (0,0) and (25,5), in which case ShortestPath() does not print anything.

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).

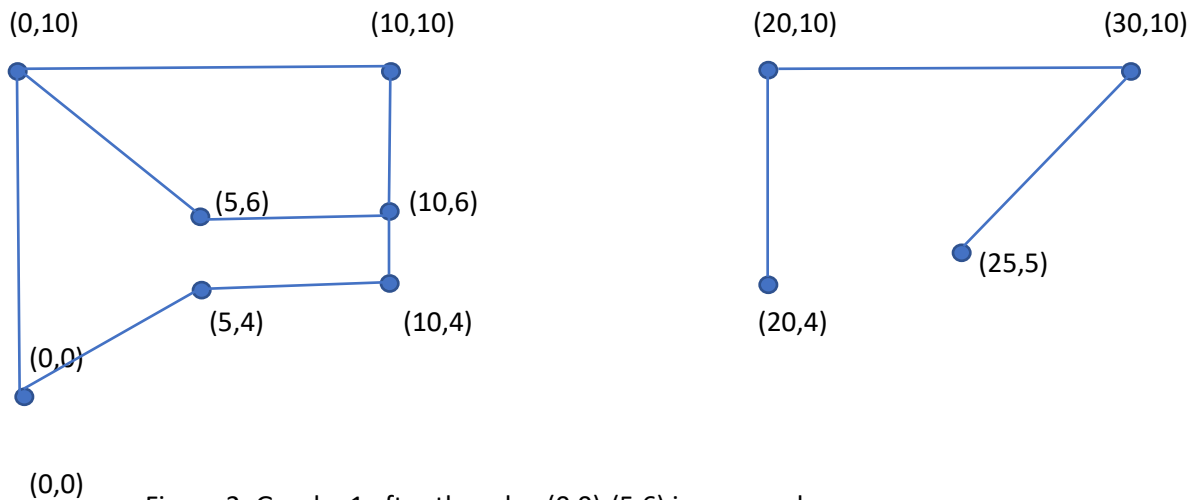


Figure 2: Graph g1 after the edge (0,0)-(5,6) is removed

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.

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