**Problem 1** *(Graph.java)* Add copy constructor for Graph.java implementation of undirected graph. [20 points]

**Problem 2**. .[10 points] Given an MST for an edge-weighted graph G, suppose that an edge in G that does not disconnect G is deleted. Describe how to find an MST of the new graph in time proportional to E.

**Problem 3**. [10 points] Given an MST for an edge-weighted graph G and a new edge e, describe how to find an MST of the new graph in time proportional to V.

**Problem 4.** [10 points]Suppose that we convert an EdgeWeightedGraph into an EdgeWeightedDigraph by creating two DirectedEdge objects in the EdgeWeightedDigraph (one in each direction) for each Edge in the EdgeWeightedGraph and then use the Bellman-Ford algorithm. Explain why this approach fails spectacularly.

**Submitting Information:**

* DO NOT post your code on Piazza
* Use the code I provided for Problem. DO NOT delete any function
* Submit your work on Canvas.
* DO NOT change the name of .java files.
* Put all the .java files in one zip file and name it <last><first>.zip
* The deadline is May 10th at 11:59PM