CS 212 MA #4

For this micro assignment, you will use the disjoint set class developed in MA #3 to create a minimum spanning tree using Kruskal's algorithm. In addition, it may be beneficial to reuse some of your MA #2 graph code for this assignment. As always, I've provided an EXE of my solution that you may test against.

Main.cpp

HackerRank will test your program by supplying one or more vertices in the format

<Source ID> <Sink ID> <Weight>

Note that each data point will be separated by a single space. Here's an example:

1 2 5

The following line says that vertex 1 is connected vertex 2 with a edge weight of 5. Therefore, each line represents a single directional edge. If we wanted this edge to be bidirectional, you would have to provide both directions:

1 2 5

2 1 5

Your main should continue to prompt the user for vertices until it receives the value "-1". After receiving the stop signal, you then must generate a MST. Note that the exact order **is not important** as I can check your output on hacker rank in the case that your order doesn't match mine!

Grading

Your submission will be judged on the correctness of hacker rank test cases, completeness of code, and quality of code (i.e. style).

Due Date

This assignment must be submitted through HackerRank no later than midnight on Friday, March 14, 2017.