

Homework 10 – Due May 29th 23:59, KST

Instructions: Complete the implementation and turn it in before the due date. Any deviations from the instructed deliverable format will result in a deduction of grade. DO NOT COPY OTHER'S WORKS!

You will be implementing the weighted undirected graph data structure for this assignment. See `Connectable.java` for the interface specification that you should implement. Part of the assignment is understanding the behaviors of the methods given in the `Connectable` interface, so carefully plan on how you would implement them. You are free to use any data structures we learned in class as long as they're provided by Java's Collection framework. In case you need to build new classes and/or declare other methods, feel free to do so.

Rubric: Grading will be based on, but not limited to, the following criteria.

- Documentation (40 points): For each of the required methods, you should provide extensive descriptions in the header comments. In particular, the descriptions should include logically correct time complexity analyses.
- Correctness (60 points): The methods provided by the `Connectable` interface should behave as specified.
- Miscellaneous: Do not change the method and class names or declare a new package. You must submit an ***error-free*** program that will compile without any syntax errors. Two or more unexpected exceptions will result in a zero (0) for correctness.

Deliverable: Turn in only a single file named `HW10.java` that is not part of any package structure. We will use our own `Connectable.java` file. Do NOT rename the file and do NOT turn in any other files. You will be penalized for deviating from these instructions.