

**COP 3503 Spring 2024 Program #5 Grading Criteria (100 points total)**

1. Network flow code (either FF or Dinic) is present in the submission – 5 pts
2. A network flow object is created. – 3 pts
3. Edges were added to the network flow object from source to some vertices. – 4 pts
4. Edges were added from some vertices to sink. – 4 pts
5. Edges were added between pairs of vertices which neither are source nor sink. – 4 pts
6. At least one method call to find the max flow for the network flow object is made. – 5 pts
7. First output is either “yes” or “no”. – 5 pts
8. Header Comment, Comments, Use of White space, Good consistent coding style. – 10 pts
9. Task 1 – 10 test cases, 2 pts each, **award 0 out of 20 if there isn't network flow code. If there is network flow code, then just award 2 pts for each correct response.**
10. Tasks 2, 3 – 10 test cases, 2 pts for Task 2, 2 pts for Task 3 per test case.

**Graders: When grading, run the checker for all of task 1 and that will actually score 5 cases out of 2 and 5 cases out of 6, for a total of 40 points/**

**Then, run the checker for the last five cases (11 through 15), but don't count the first 2 points for each case. Instead, award either 0, 2 or 4 points per test case (2 if valid matching but not lexicographical first, and 4 if correct lexicographical first).**

**Run Time Limit = 3X, where X is the run time of my solution on your (TAs) computer. Stop output at the end of the time limit and just grade those cases. You can be approximate with this.**

**If program doesn't compile, max grade of 40 out of 100.**