COP 3503 Spring 2024 Program #4 Grading Criteria (100 points total)

1. Sets up appropriate constants. (Doesn't have to be the same as mine, but there should be some constants that get used to help readability.) – 3 pts

2. Reads in board data in an appropriate way. (There are many ways to do this.) – 2 pts

3. Calculates bitmask for the initial position. – 5 pts

4. Calculates bitmask for the final position. – 5 pts

5. Has a function that given a bitmask for a current position, calculates the set of bitmasks that could be the next position. – 10 pts

6. Has a BFS with a queue. – 5 pts

7. Has a distance array and not a distance map. – 3 pts

8. Has appropriate helper methods. – 5 pts

9. Follows specification for output. – 2 pts

10. Header Comment, Comments, Use of White space, Good consistent coding style. – 10 pts

11. 25 test cases – 2 pts each

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 45 out of 100 → can get most pts from items 1 – 10, above, but 5 pts for not compiling are taken off.