

COP 3503 Section 201 Fall 2026 Program #2 Grading Criteria (50 points total)

1. Programming Style - Header Comment, Internal Comments, Use of white space, consistency, reasonable code lay out. (5 pts)
2. Reads in input from standard input and outputs to standard output (2 pts)
3. Attempts to build valid sets stored in a reasonable manner (3 pts)
4. Has some machinery to check for differences between items in the set (5 pts)
5. Has code that attempts to backtrack, skipping placing a number in a set if it would generate a difference that already exists (5 pts)
6. Test Cases - 25 pts – **Run Time Limit = 10 seconds total** (Sample Solution takes less than 2 seconds on all cases) Please run the code for 10 seconds and just grade the answers that have printed out in that time. There are 68 cases, so record the grade as $\text{floor}((25 * C) / 68)$, where C is the number of correct answers.
6. Commentary File – 5 pts (**Note: if this file isn't consistent with the submission, indicating that AI or significant outside help was involved, then the grader may assign a 0.**)

If a program does not compile, max grade of 10 out of 50.