

Program #3 Grading Criteria - 100 pts total

Feel free to award partial credit in each category based on “how well” the program satisfies the criteria presented.

Please award the code points (40 pts) collectively between two of the programs. If only one is submitted, a student can still earn all 40 code points, since the code itself is largely copied between the two versions.

General Code Points (12 pts)

All input read in – 3 pts

Input for conflicts stored reasonably – 3 pts

Main sets up permutation, used arrays – 3 pts

Main calls recursive function – 3 pts

Use of Permutation Algorithm (8 pts)

Recursive function is used – 4 pts

Recursive function uses similar prototype to class with permutation array and used array – 4 pts

Functional Breakdown (10 pts)

Main is reasonably short just does IO and setup – 3 pts

There's a recursive function that solves the problem – 4 pts

There's at least one function devoted to checking the validity of a permutation – 3 pts

Style Points (10 pts)

Header comment w/name, program, date – 2 pts

Appropriate variable names – 2 pts

Has a constants (#define or const) included in write up – 2 pts

Appropriate white space and indenting – 2 pts

Internal comments in code – 3 pts

Execution Points Program A (30 pts)

3 pts a test case, all or nothing, no exceptions

Execution Points Program B (30 pts)

3 pts a test case, all or nothing, no exceptions (you may fix minor formatting issues like a forgotten new line)