

Name: _____

3-In-A-Row Gradesheet

MCS-178

_____ **10** Reads in the input file correctly

_____ **10** Stores the grid in an appropriate data structure; updates & downdates the data structure appropriately while searching

_____ **50** Implements backtracking correctly

_____ [10] Checks current configuration to see if it's a solution

_____ [20] Continues search if solution is not found and feasible search space is not yet exhausted

_____ [20] Backtracks when all possible extensions of current configuration have been found to be infeasible

_____ **10** Correctly determines success or failure

_____ **10** Prints out a solution when one is found; prints out a failure message otherwise

_____ **10** Code is well designed, well commented, and nicely formatted; variables are appropriately named

_____ **10** [Extra Credit] Graphically displays the solution board when found

_____ **10** [Extra Credit] Animates the board while searching

_____ **10** [Extra Credit] Combine all 3 versions (text, GUI, and animation) of the program into one program

_____ **10** [Extra Credit] Submit a text-only program that displays all solutions

_____ **TOTAL**