Name:	Date:	Period:

Lab07: N-Queens and Local Search

- Attach a code printout.

- Run 1000 hill climbs for 8-Queens, with no random restart or sideways moves.

  - How many of the trials found a solution?
  - What was the total execution time?

- Run any of the random searches (first choice, weighted choice, simulated annealing, or stochastic beam).

  - Which random search did you run?
  - Quantify the success rate and execution time.
  - What issues, decisions, complications, or roadblocks did you encounter?

- Run a genetic algorithm.

  - How large a population did you use for 8-Queens?
  - How many boards did you discard at each step?
  - How did you select pairs of boards for crossover?
  - Quantify the convergence to a solution.