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Chapter 4 HW Problems

Problems: 4.1

- 4.1 Give the name of the algorithm that results from each of the following special cases:
- a. Local beam search with k = 1.

Hill climbing search (greedy search)

- b. Local beam search with one initial state and no limit on the number of states retained. Similar to Breadth First Search
- c. Simulated annealing with T=0 at all times (and omitting the termination test). First-Choice Hill Climbing search
- d. Simulated annealing with T = infinity at all times.

A random restart search

e. Genetic algorithm with population size N = 1.

A random restart search