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1. A problem state consists of five parts: the initial state, a set of actions, a transition model describing the results of those actions, a goal test function, and a path cost function. The environment of the problem is represented by a state space, essentially the search state. A search state is a sub set of a problem which could be in any form from the path of the initial state to a goal state.
2. a) hill-climbing search

b) breadth first

c) first choice hill climbing

d) random walk search

e) random walk search in the space of individuals