Figure 3.13 Uniform-cost search on a graph. The algorithm is identical to the general graph search algorithm in Figure ??, except for the use of a priority queue and the addition of an extra check in case a shorter path to a frontier state is discovered. The data structure for frontier needs to support efficient membership testing, so it should combine the capabilities of a priority queue and a hash table.

Figure 3.16 A recursive implementation of depth-limited tree search.