6.034 Recitation 2: More Search Exercise Solutions (9/24/04)
LOrtiz (Orig. by K Koile)

Using search for something other than a map!

1. There are several possible answers, but one that works is
Guy Pearce → Kevin Spacey → Helen Hunt → Jack Nicholson → Kevin Bacon

2.

3.

4. Number of actors listed as co-stars

5.

6. If you had a bigger database with more actors listed and more co-stars for each one, using beam search might help limit the size of the problem from getting too huge, and the same heuristic could be used. But remember: beam search is not guaranteed to find a path.

7.
IF
   (?A co-starred-with ?B)
AND-IF
   (?B co-starred-with Kevin-Bacon)
THEN
   (?A two-degrees-from-Kevin-Bacon)