Jan 31: Agenda

- Recap: Implicit graphs, only local knowledge; DFS, BFS, UCS algorithms unified via the function $f(\cdot)$.
- General Search Questions:
 - What is the difference between a state and a node?
 - What is the trade-off between DFS and BFS?
 - Compare Fig. 3.7 (pg. 91) vs Fig. 3.9 (pg. 95)
 - What are the optimizations in the latter?
 - If the "greatest common divisor" of all edge costs exists and is known. How could we use BFS to obtain optimal costs?

Informed Search:

► What is h(·)? In what two ways does it differ from g(·)?

- What is: an admissible heuristic? a consistent heuristic?
- The effect of f(n) = g(n) + h(n)? Contours!
- Can we give a best possible (admissible) heurstic? How about a worst possible (admissible) heurstic?