Homework 15 (No problems to submit) updated for Summer, 2017

When a problem is given by number, it is from the textbook. 1.1.2 means "problem 2 from section 1.1" .

Problems for enlightenment/practice/review (not to turn in, but you should think about them):
11.1.2   (lower bound towers of Hanoi)
11.1.3   (trivial lower bounds)
11.1.6   (lower bound on sorting y exchanging adjacent elements)
11.1.11   (tight lower bound for closest numbers problem)
11.2.2   (median of 3 lower bound)
11.2.4   (best comparison-based sort for 4 elements)
11.2.9   (tournament tree)
11.2.11 [11.2.10]   (jigsaw puzzle)
11.3.5   (polynomial-time 2-coloring algorithm)

Problems to write up and turn in: (but you do not have to turn them in this term)

1.   (5) 11.3.6   (brute force composite number)

2.   (5) 11.3.7a   (polynomial –time check of knapsack solution)

3.   (5) 11.3.11 [11.3.10]   (Venn diagrams)

4.   (10) 11.3.12 [11.3.11]   (King Arthur problem) Optional, extra-credit problem

Questions and answers from Piazza:

HW15 Old Q5 What does "can win" mean?

When it says if that side can win, does it mean on the current turn/move by taking the King?
Or does it mean in some future move, potentially n moves?
Answer: It means "Is there some sequence of moves that will result in a win for this player?"