CS211: Problem Set 5

Due Friday, March 27

I encourage you to discuss these problems with other students. However, the write ups should be your own. Don't write up your solutions while you're collaborating with others. Write them up later—to help ensure that you understand the solution on your own. Cite your collaborators in your submission.

1. **(4 pts) Solve the knapsack problem for the following items where the maximum weight that you can carry is 11.**

Item	Value	Weight
Flashlight	18	4
Map	6	2
Cellphone	5	3
Food	22	6
Water	28	8

2. **(11 pts) [K&T 6.1]**

3. **(10 pts) [K&T 6.7]**