

Name: _____ PID: _____

Homework 6

Instructions:

1. Print out this PDF **double-sided**. (You will turn in your solutions written on your printed copy)
2. There are 5 questions.
3. Make sure your answer is written down in the provided space for that question. We will NOT grade any work outside of that space.
4. Due in class, Tuesday Nov 24th, 2015
5. Don't forget your name and PID!

Name: _____ PID: _____

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Question 1: There are 5 items available to take. Your knapsack only holds 10 lbs. What is the maximum value you can take with you?

Item:	1	2	3	4	5
Weight:	2lb	3lb	4lb	5lb	8lb
Value:	\$3	\$7	\$4	\$9	\$14

Perform the knapsack algorithm (without repetitions) by constructing an array like we did in class. Then draw the path in your array that leads you to the bottom right cell and use that to choose which items to take.

Answer begins:

Name: _____ PID: _____

Answer ends

Name: _____ PID: _____

Question 2: Textbook, Chapter 6, Exercise 6.1

Answer begins:

Name: _____ PID: _____

Answer ends

Name: _____ PID: _____

Question 3: Textbook, Chapter 6, Exercise 6.17

Answer begins:

Name: _____ PID: _____

Answer ends

Name: _____ PID: _____

Question 4: Textbook, Chapter 6, Exercise 6.18

Answer begins:

Name: _____ PID: _____

Answer ends