Homework Assignment: 3
Name: Jonathan Gaines
Date: 4/19/2017

_____

1. Job Optimization

   (a)
Solution	Time Slot 1	Time Slot 2	profit
1	Job 1	Job 3	55
2	Job 3	Job 1	55
3	Job 2	Job 1	65
4	Job 2	Job 3	60
5	Job 4	Job 1	70
6	Job 4	Job 3	65

   (b) The optimal schedule has Job 4 in timeslot 1 and Job 1 in timeslot 2 for a profit of $70.

   (c)

2. Dynamic Programming: Change Making

   (a)

   (b)

   (c)

   (d)

3. Dyanmic Programming: Knapsack Problem

   (a)

   (b)

   (c)

4. Greedy Algorithm

   (a)

   (b)

   (c)