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CSCI 3104

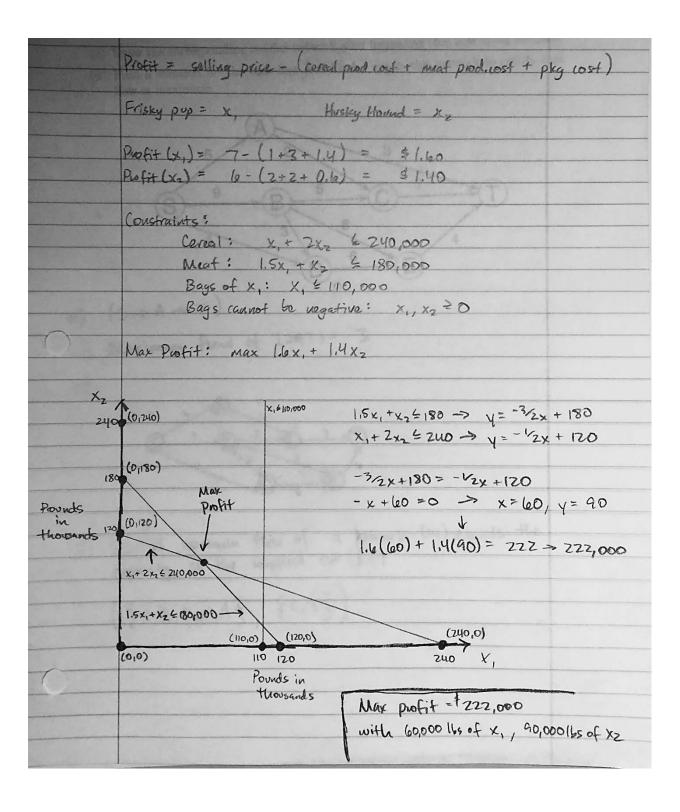
CPU: 2.8 GHz Intel Core i7

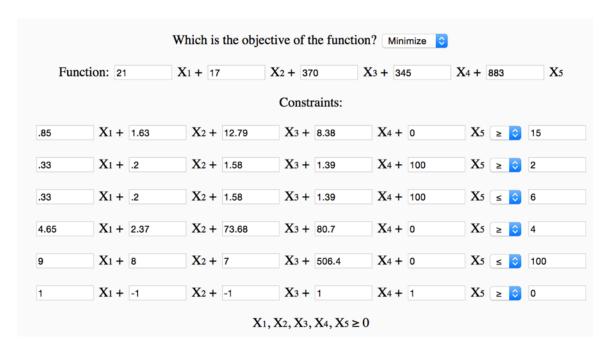
Ram: 16 GB 1600 MHz DDR3

**OSX Yosemite** 

## Homework #8

On my honor, as a University of Colorado at Boulder student, I have neither given nor received any unauthorized help.





## Variables:

## **Optimal Solution:**

5.8845 portions of tomato

5.8481 portions of lettuce

.03642 portions of spinach

0 portions of carrots

0 portions of oil.

## Constraints:

Protein at least 15g

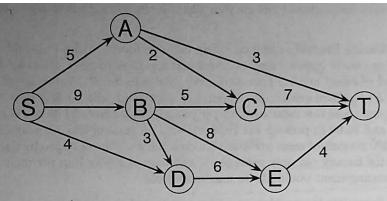
Fats between 2g and 6g

Carbs at least 4g

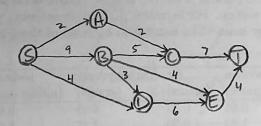
Sodium at most 100g

At most 50% greens by mass

Source: <a href="http://www.phpsimplex.com/simplex">http://www.phpsimplex.com/simplex</a>



- a) (5-A->T)
- 6) Maximum from of (SAT) = 3
- c)



d) Size of maximum flow of a network (14) equals the capacity of the smallest cut (s,t)

({5,B,D,E,A}, {C,T})