# CSC373 Worksheet 6 Solution

### August 12, 2020

#### 1. Notes:

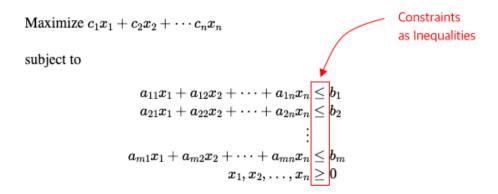
#### • Linear Programming

- Is a method to achieve the best outcome (such as maximum profit or lowest cost) in a mathematical model whose requirements are represented by linear relationships. [1]
- Is named to make it sound cool for government funding
  - \* Like dynamic programming
- Applications
  - \* Microeconomics (maximize profits, minimize costs)
  - \* Company management

#### • Standard Form

- Is a form of linear programming
- Are about maximizing, not minimizing <sup>[2]</sup>
- Has all constraints as inequalities

#### Example:



## References:

- 1) Wikipedia, Linear Programming, link
- 2) Instituto de Mathematicas, Standard form for Linear Programs, link