

# CSC373 Worksheet 2 Solution

July 23, 2020

## 1. Notes:

- Greedy Algorithm
  - Always makes the choice that looks best at the moment
    - \* Locally optimal solution leads to globally optimal solution
  -
- Activity-selection Problem (Greedy algorithm using dynamic programming)
  - Goal: Selecting maximum size set of mutually compatible activities
  - Steps
    1. Think about dynamic programming solution
    2. Observe that only one choice - greedy choice, and that when we make the greedy choice, only one subproblem remains
    3. Develop recursive greedy solution
    4. Convert the recursive algorithm into iterative one