CS 5800: Algorithms Virgil Pavlu

Homework: Greedy

Problems

- 1. (15 pts) Exercise 15.2-3. Use induction to argue correctness.
- 2. (15 pts) Exercise 15.2-4.
- 3. (15 pts) Exercise 15.2-5.
- 4. (15 pts) Exercise 15.2-6.
- 5. (15 pts) Exercise 15.3-3.(Extra Credit). First prove by induction that $\sum_{i=0}^{n-1} F(i) = F(n+1) 1$
- 6. (20 pts) Problem 15-1, (a), (b) and (c).
- 7. (15 pts) Exercise 14.4-5. Hint: try to solve this problem using a greedy approach it may not work; if it doesn't work, it means you must use DP and you can leave it for HW5.