

CPS 130: Homework VI*(**Due November 28th**)

1 More on network flows

1. (2 points) CLRS Exercise 26.1-4 (page 650).
2. (3 points) CLRS Exercise 26.1-9 (page 650).
3. (2 points) CLRS Exercise 26.2-1 (page 663).
4. (3 points) CLRS Exercise 26.2-2 (page 663).
5. (5 points) CLRS Exercise 26.2-7 (page 663).
6. (5 points) CLRS Exercise 26.2-8 (page 663).
7. (5 points) CLRS Exercise 26.2-9 (page 663).
8. (5 points) CLRS Exercise 26.3-2 (page 668).
9. (10 points) CLRS Problem 26-3 (page 693).

2 Dynamic programming

1. (10 points) CLRS Problem 15-3 (page 364)
2. (10 points) CLRS Problem 15-6 (page 368)

3 Number-theoretic algorithms

1. (5 points) CLRS Exercise 31.1-10 (page 856).
2. (5 points) CLRS Exercise 31.2-1 (page 861).
3. (5 points) CLRS Exercise 31.2-9 (page 862).
4. (5 points) CLRS Exercise 31.8-1 (page 896).

*There are a lot questions in this hw as many of the problems are easy and are meant to give you good intuition about how various algorithms work