

CS 3510 A: Design and Analysis of Algorithms
Fall 2008

Home work 3 // Due: Friday, October 10, 2008

1. (15 points) Exercise 3.25, page 99 of the text.
2. (10 points) Exercise 4.16 (c) page 122 of the text.
3. (15 points) Exercise 4.18, page 124 of the text.
4. (Not graded) Given an undirected graph $G = (V, E)$ with unit edge lengths and two nodes s, t in G . Give an $O(|V| + |E|)$ algorithm to compute the number of distinct shortest $s - t$ paths in G .