BU CLA CS 530: Analysis of Algorithms

Spring 1996

Problem Set 13

Due Thursday 96.04.25, at 11:00 am, in class. Late submissions not accepted.

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1. Exercise 36.4-7, page 946, in [CLR].
2. Exercise 36.5-6, page 960, in [CLR].
   Comment: You are asked to show that LONGEST-SIMPLE-CYCLE is "NP-complete" — this should be "NP-hard". LONGEST-SIMPLE-CYCLE is an optimization problem, and the theory of NP-completeness applies to decision problems only.
3. Problem 36-2, page 962, in [CLR]. Parts (a), (b), and (c) only.
4. Exercise 37.2-2, page 973, in [CLR].
   Comment: Assume the triangle inequality is satisfied, otherwise the claim is false.

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