

Analysis of Algorithms I: Problem Assignment 4

Due on Gradescope at 11:59pm on Monday, April 4, 2022.

Instructions

- Problems 1-5 are each worth 10 points.
- Submit your solutions in pdf format. Late submissions will **not** be accepted.
- You can discuss with TAs or other students but you must acknowledge them at the beginning of each problem and your solutions must be written in your own words.

Problems

1. Problem 15.3 on Page 405: Bitonic euclidean traveling-salesman problem.
2. Exercise 15.1-2 on Page 370: Counterexample.
3. Problem 17-2 on Page 473 (Skip c): Making binary search dynamic.
4. Problem 17-3 on Page 473: Amortized weight-balanced trees.
5. Exercise 22.2-6 and 22.2-7 on Page 602.