Homework 1

Instructor: Nelly Fazio

All exercise numbers refer to the course textbook:

**Title:** Introduction to Algorithms (3rd Edition)

**Authors:** T. Cormen, C. Leiserson, R. Rivest, C. Stein

**Publisher:** MIT Press (2009)


**Insertion Sort**

- Exercise 2.1-2
- Exercise 2.1-3 (make sure to work out the loop invariant part!)
- Exercise 2.1-4

**Analyzing Algorithms**

- Exercise 2.2-1
- Exercise 2.2-2

**Designing Algorithms**

- Exercise 2.3-2
- Exercise 2.3-5

**Growth of Functions**

- Exercise 3.1-2
- Exercise 3.1-4
- Exercise 3.2-3