

# CSC3100 Data Structures 2022 Fall

## Assignment 1

Due: 11:59pm, Oct 7<sup>th</sup>, 2022

### 1. Resource

All the problems can be found from the textbook online:

[https://sd.blackball.lv/library/Introduction\\_to\\_Algorithms\\_Third\\_Edition\\_\(2009\).pdf](https://sd.blackball.lv/library/Introduction_to_Algorithms_Third_Edition_(2009).pdf)

### 2. Problems

- Problem 1 (10 points): CLRS Problem 2.3-4 (page 39, 3rd edition)
- Problem 2 (20 points): CLRS Problem 2-4 (page 41-42, 3rd edition)
- Problem 3 (10 points): CLRS Problem 3.1-5 (page 53, 3rd edition)
- Problem 4 (10 points): CLRS Problem 3-4.b (page 62, 3rd edition)
- Problem 5 (10 points): CLRS Problem 3-4.c (page 62, 3rd edition)
- Problem 6 (10 points): CLRS Problem 4.3-3 (page 87, 3rd edition)
- Problem 7 (10 points): CLRS Problem 4.5-3 (page 97, 3rd edition)
- Problem 8 (20 points): CLRS Problem 4-1 (page 107, 3rd edition)

### 3. Submission

Please upload the softcopy to Blackboard

If you have any questions, please contact the leading TA (Yingli ZHOU:  
[yinglizhou@link.cuhk.edu.cn](mailto:yinglizhou@link.cuhk.edu.cn))