

Assignment 2

CSC 3100 Data Structures

Due Oct. 21st by 6pm, 2020

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1 Growth of Functions

Problem 1. CLRS Problem 2.3-3 (3rd edition page 39)

Problem 2. CLRS Problem 2.3-6 (3rd edition page 39)

Problem 3. CLRS Problem 2.1 (3rd edition page 39)

Problem 4. CLRS Problem 2.4 (3rd edition page 41)

Problem 5. CLRS Problem 3.1-1 (3rd edition page 52)

Problem 6. CLRS Problem 3.3(a) (3rd edition page 61)

2 Divide-and-Conquer

Problem 7. CLRS Problem 4.3-6 (3rd edition page 87)

3 Elementary Data Structures

Problem 8. CLRS Problem 10.1-7 (3rd edition page 236)

Problem 9. CLRS Problem 10.2-2 (3rd edition page 240)

4 Heap

Problem 10. CLRS Problem 6.1-7 (3rd edition page 154)

Problem 11. CLRS Problem 6.4-1 (3rd edition page 160)

Problem 12. CLRS Problem 6.5-2 (3rd edition page 165)

5 Sorting

Problem 13. CLRS Problem 7.2-5 (3rd edition page 178)

Problem 14. CLRS Problem 8.2-2 (3rd edition page 196)