

Lab Exercise-5

Lab exercise (C/C++):	40
1. Implement a Max-Heap for a given unsorted sequence of numbers. 1.1. Write Max-Heapify function 1.2. Print Max 1.3. Extract Max	10
2. Performa following operation in a Max-Heap 2.1. Increase a key 2.2. Insert a key	10
3. Implement Heapsort algorithm	10
4. Write a program to merge k sorted lists using a Min-Heap	10

Note:

- Students need to practice all questions in the assignments
- TAs will assign a random question in the lab