
Chongqing University of Technology

Subject: Data Structure and Algorithm

Instructor: Henry

Project for Additional Extra 2 credits

“Notice”

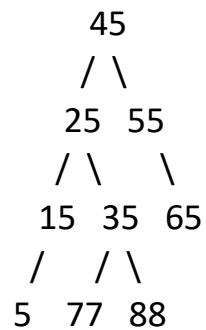
- Solve 9 problems.
 - Your code won't be same of others if it is then both of your project will be declined.
 - Submit it on time.
 - your code will have in 1 project named by the Topic list and give the name of the class look like this: Topiclist_1, Topiclist_2, Topiclist_3.....
 - make it zip and send it to akabillah4420@gmail.com don't forget to write the subject name "Project and the student_ID" in the mail
 - Be sincere to obey all of the rules otherwise maybe you will get (LOW SCORE.)
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- Deadline: 14 December

Question

1. Implement a stack using 2 queues.
2. Implement a queue using 2 stacks.
3. Implement Priority Queue using heap. Implement insert and removeMin methods of heap.
4. Implement Selection Sort, Insertion Sort, Quicksort and Merge Sort.
5. Reverse a linked list.

6. Implement expression computation using stack.

7. Implement Binary Search Tree.



8. Declare a weight graph using matrix. Implement PRIM to get an MST of the graph.

9. Implement Selection Sort, Insertion Sort, Quicksort and Merge Sort.