

FIT3155: Lab questions for week 7

Objectives: Concepts from weeks 6-7
--

1. Implement a Fibonacci heap data structure supporting the following operations:
 - insert
 - min
 - extract-min
 - merge
 - decrease-key
 - delete
2. Recall Dijkstra's shortest path algorithm from FIT2004? Improve Dijkstra's algorithm using a Fibonacci heap. Reason what the resultant complexity of this algorithm when Fibonacci heap is used.
3. If you have any lab exercises still pending from previous weeks' lab, complete them.

--0--
END
--0--