
Session 32

Strategy 4: Transform-and-Conquer


Lecture Summary

Students encouraged to program heap operations and research applications of heaps

Representation Change: Heaps

1. Motivation: priority queues and their applications
2. The heap data structure and the heap condition
3. Array implementation of heaps
4. Bottom-up construction

Session Exercise

 Exercise 6.4 • 1, 6, 7, 8, 9

Reading List

 6.4

Keywords

Complete [binary tree], heap, “heapify”, parental dominance, priority [queue]