Exercise Set 4

Prepared by Anil and Neeraj March 27, 2009

Heaps and Priority Queues

R-8.2, R-8.11, R-8.13, R-8.16, R-8.17, C-8.4, C-8.5, C-8.16, C-8.17

Hashing

R-9.5

Extra Question

A hash table of size M stores N integer keys. Collisions are handled by chaining and the hash function is $h(K) = K \mod M$.

- 1. What is the worst-case search time? Give an example of a set of keys that achieves the worst-case search time.
- 2. Would you use this hash table for a time-critical application (e.g., airtraffic control)?