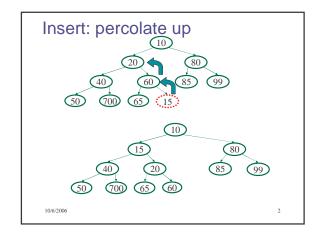
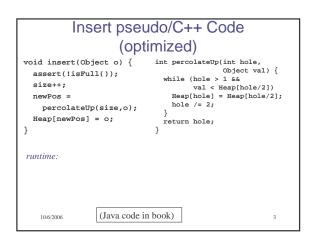
Heap - Insert(val)

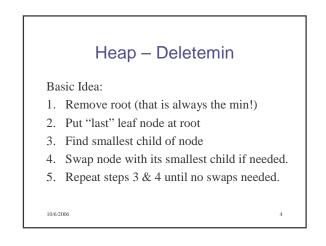
Basic Idea:

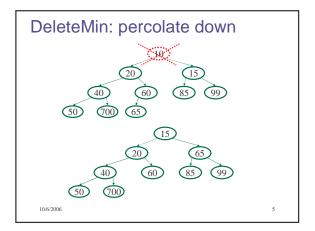
10/6/2006

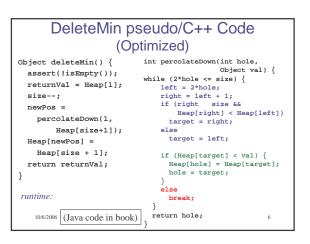
- 1. Put val at "next" leaf position
- 2. Repeatedly exchange node with its parent if needed

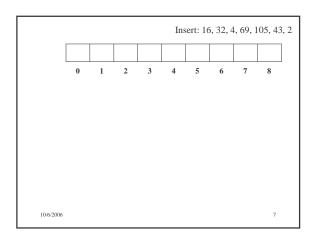


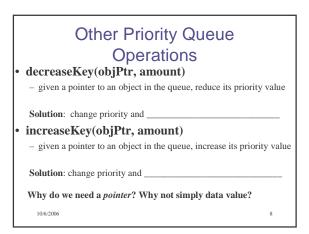


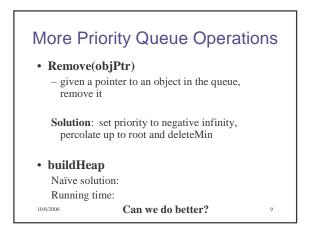


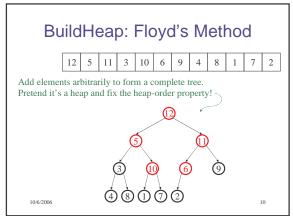


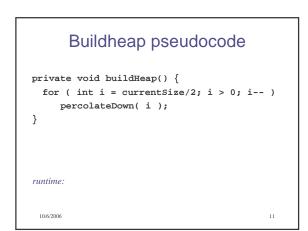


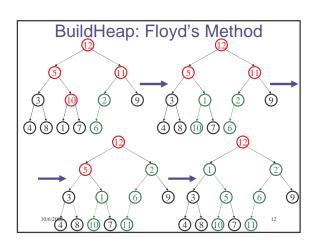


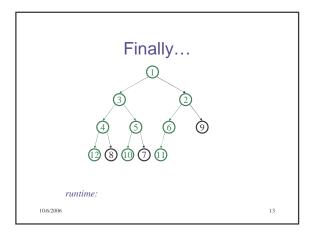














division/multiplication by powers of two are equally fast

14

- looking at only two new pieces of data: bad for cache!
- with huge data sets, disk accesses dominate

