

CSE 373 – Data Structures

Homework 5

Assigned: Wednesday, May 8, 2002
Due: Wednesday, April 15, 2002
At the start of class

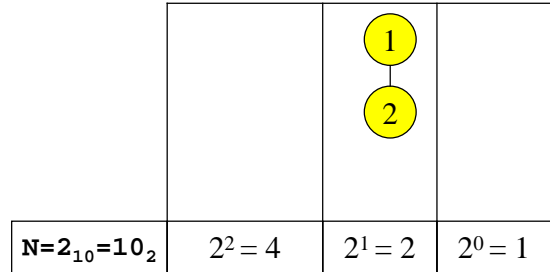
Remember:

- Attach a copy of winpidplot.dot
- Attach a copy of your plot of the binary heap
- Attach a copy of your turnin receipt
- Do a web turnin of bheap.c.

Your name: _____

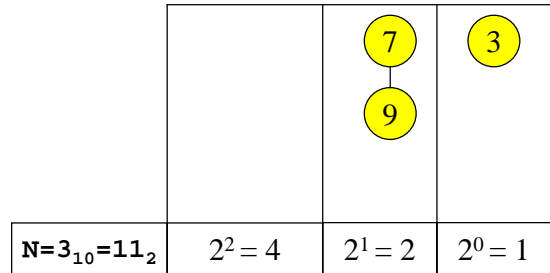
Student number: _____

3. Consider the two binomial queues shown on the right.



a. Is the heap order minimum or maximum?

b. What is the minimum element in the N=3 queue?



c. Draw a similar drawing that shows all the elements in their proper positions after these two queues are merged into one 5-element binomial queue.

d. Delete the minimum element from the 5-element binomial queue you drew in (3c). Now draw a similar drawing that shows all the elements in their proper positions in the resulting 4-element binomial queue.