CS146-Lab7 Due: April-6-2016 Name:

Reading assignments:

Read lecture notes

Answer the following questions in one word document. Then email it to me to [sjsumortezaie@gmail.com](mailto:sjsumortezaie@gmail.com)

The subject of your email must be CS146Lab7Section#. Please read the Format of the lab.

1. Implement the BinaryHeap as shown in page 228.
2. Use the above implementation to do exercise 6-2 and 6-3 of page 263. Include the code to display the tree. Make sure to have the screen shot of the result.
3. Exercise 6-5 of page 263.
4. Implement heapsort to perform descending sort.
5. Complete 7.11 page 322 (show each step). Also use the code in part-4 to show how it sorts these values. Include the screen shot of the result.