CS180 Homework 5
Due via email on 12/1 by 11:59pm

This homework covers treaps and hash tables. Please see the lecture notes or textbook for reviews of these topics.

1. Draw the unique treap which contains the following key/priority pairs, where the priority is an integer, the key is a character, and the underlying heap on the priorities is a min heap.
   Pairs: (2, H), (9, T), (3, G), (5, M), (11, E), (8, Z), (1, O), (14, W), (4, Q), (10, A), (17, B), (12, R), (6, L)
   Hint: Start by drawing a BST on the characters, and then "heapify" the priorities like we discussed in class.

2. R-8.4 on page 405 of text
3. R-8.5 on page 405 of text
4. R-8.6 on page 405 of text
5. R-8.7 on page 405 of text
6. R-8.14 on page 406 of text
7. Extra Credit: Draw two different binary trees whose nodes store a single character and whose inorder traversal gives the word "THANKSGIVING".