COS 226 Fall 2014 Class Exercise 5 2014-09-25

Today: red-black-trees, AA-trees; § 19.5-6.
Next class: AA-trees paper, ${ }^{1}$ disk data structures, B-trees; § 19.7-19.end.

1. List the members of your group below. Underline your name.
2. Depict the AA-tree resulting from the sequential insertion, in the listed order, of $1,2,3, \ldots, 10,20,19, \ldots, 11$ into an empty tree, using bottom-up insertion. All intermediate trees need not be depicted, but it is advisable to depict at least a few.

[^0]3. Depict the AA-tree resulting from the sequential deletion, in the listed order, of $11,5,17,1$ from the final tree of Question 2.


[^0]:    ${ }^{1}$ Arne Andersson, "Balanced Search Trees Made Simple," in Proceedings of the Workshop on Algorithms and Data Structures (Montreal, Canada, 1993).

