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Today: red-black-trees, AA-trees; § 19.5–6.

Next class: AA-trees paper, 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.

<sup>&</sup>lt;sup>1</sup>Arne Andersson, "Balanced Search Trees Made Simple," in *Proceedings of the Workshop on Algorithms and Data Structures* (Montreal, Canada, 1993).

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