

Today's topics: Merge-sort and quick-sort. §§ 8.5, 8.6.

Next class: Binary heaps. §§19.*.

1. List the members of your group below. Underline your name.

2. Depict the action of 2-way *merge-sort* on the following array. Clearly indicate all recursive *mergesort* and *merge* invocations, and the arguments and return values of all invocations.

37 90 35 88 49 55 13 50 26 73 31 51 99 46 90 13 27 84

3. Repeat Question 2 using a 3-way merge-sort.

4. Repeat Question 2 using *quick-sort*, using the *median-of-three* strategy for pivot-selection.

[additional space for answering the earlier question]