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Today: Little languages.<sup>1</sup>

**Next class**: Implementing a library sort routine.<sup>2</sup>. Bring hardcopies to class for reference.

- 1. List the members of your group below. Underline your name.
- 2. Provide Java, Python, and C equivalents of the number-formatting examples in the second paragraph of the paper (which use Fortran and Cobol).

- 3. Design a little language for filtering email messages. (If you are familiar with one, try not to be overly influenced by it.)
  - (a) Describe the requirements.
  - (b) Note and briefly explain your design choices for objects, operators, and structure of the language.
  - (c) Describe the language precisely using suitable tools.
  - (d) Provide illustrative examples.

<sup>&</sup>lt;sup>1</sup>Jon Bentley, "Little Languages," Communications of the ACM 29/8 (1986).

<sup>&</sup>lt;sup>2</sup>Jon L. Bentley and M. Douglas McIlroy, "Engineering a Sort Function," Software–Practice and Experience 23/11 (1993).

[additional space for answering the earlier question]