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1. (1 pt.)

- This *quick check* is **closed book**, **notes**, **etc**.
- Use the **classroom and textbook conventions** and terminology.

Read the above carefully; then write your name below:

- 3. (2 pts.) How does quicksort use the special element called the *pivot*?
- 4. (3 pts.) (1) Is quicksort an *in-place* sorting method? Also answer this question replacing quicksort with (2) mergesort and (3) heapsort. [Based on the textbook's algorithms and implementations.]
- 5. (2 pts.) Define *k*-generalized Fibonacci numbers as used in Reynolds's paper.