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Final Exam

Question 7.20

7.20 Using the quicksort implementation in this chapter, determine the running time of quicksort for

a. sorted input

b. reverse-ordered input

c. random input

1. For a sorted input, it would have the best execution time which is O(NlogN).
2. For a reverse-ordered input, it would also have an execution time with O(NlogN)
3. For a random input, it would have the worst execution time which is O(N^2)