



Quiz 1

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Final Grade

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! Correct answers aren't shown for this assessment

✓ Question 1

0.5 / 0.5

You have an array of n elements. Suppose you implement quicksort by always choosing the central element of the array as the pivot. Then the tightest upper bound for the worst case performance is

Hide answer choices ^

☐ A $O(n^2)$

☐ B $O(n \log n)$

☐ C $\Theta(n \log n)$

☐ D $\Theta(n^3)$

✓ Question 2

0.5 / 0.5

Consider the following pseudo code. What is the total number of multiplications to be performed?

D=2

for i=1 to n do

for j=i to n do

for k=i+1 to n do