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🏠 Linked List



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Now, it's time for a short quiz to recap what you've learned. The quiz is **graded**, so you can take it only once. Each question will be followed by feedback explaining why your answer is right or wrong. If your answer is incorrect, you will see a suggestion of what you might need to refresh your memory.
Good luck!

Read the question below and select the correct answer. Then, click "Submit."

You have a (singly) linked list that already contains N elements. Assuming the list contains distinct numbers, what will be the time complexity of the "insert a new value X" operation?

☐ $O(N + X)$

☐ $O(\log X)$

☐ $O(N + \log X)$

☐ $O(N \log X)$

☒ $O(1)$

☐ $O(N)$



Correct: Great job!

Submit

You have used 1 of 1 attempt

Read the question below and select the correct answer. Then, click "Submit."

You have a (singly) linked list that already contains N elements. Assuming the list contains distinct numbers, what will be the time complexity of the "find the number of times a given value X occurs in the list" operation?

☐ $O(N + X)$

☒ $O(N)$

☐ $O(\log X)$

☐ $O(N + \log X)$

☐ $O(N \log X)$

☐ $O(1)$



Correct: Great job!

Submit

You have used 1 of 1 attempt

