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shengtatng ~

☆ Course / Unit 6: Algorithmic Complexity / 11. Computational Complexity

Discussion

(



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Exercise 5

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Exercise 5

10/10 points (graded)

ESTIMATED TIME TO COMPLETE: 10 minutes

For each of the following expressions, select the order of growth class that best describes it from the following list: O(1), $O(\log(n))$, O(n), $O(n\log(n))$, $O(n^c)$ or $O(c^n)$.

Xercise 5 ppic: Lecture 11 / Exercise 5		Hide Discussion
Submit		
O(log(n))	✓	
• $\log n + 1000$		
• $2n^2$ • $50n + n \log(n)$ • $1000 + 2000000$ • $2^n + n^2$ • $0(c^n)$		
$3n^3-2000n^2$	✓	
O(n) \checkmark • $10 \log{(n)} + 5n^2$ O(n^c) \checkmark		
• $10\log{(n)} + 5n$		
$0.3n^2 + 2n - 100$ O(n^c)	✓	
O(n) •	•	
5n	✓	

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Why is question 3 O(n) and not log(n), when the last question the answer is log(n)?

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