



You are taking "[Final Exam \(8 hour time limit\)](#)" as a timed exam. [Show more](#)

End My Exam

06:05:39



< Previous



Next >

Problem 1

🔖 Bookmark this page



Hide Notes

Problem 1-1

1/1 point (graded)

In the statement $L = [1, 2, 3]$, L is a class.

☐ True

☒ False



Submit

You have used 1 of 1 attempt

Problem 1-2

1/1 point (graded)

The orders of growth of $O(n^2 + 1)$ and $O(n^5 + 1)$ are both polynomial.

☒ True

☐ False



Submit

You have used 1 of 1 attempt

Problem 1-3

1/1 point (graded)

The complexity of binary search on a sorted list of n items is $O(\log n)$.

☒ True

☐ False



Submit

You have used 1 of 1 attempt

Problem 1-4

1/1 point (graded)

A bisection search algorithm always returns the correct answer when searching for an element in a sorted list.

☒ True

☐ False



Submit

You have used 1 of 1 attempt

Problem 1-5

1/1 point (graded)

Performing binary search on an unsorted list will always return the correct answer in $O(n)$ time where n is the length of the list.

☐ True

☒ False



Submit

You have used 1 of 1 attempt

< Previous

Next >

© All Rights Reserved



edX

[About](#)

[Affiliates](#)

[edX for Business](#)

[Open edX](#)

[Careers](#)

[News](#)

Legal

[Terms of Service & Honor Code](#)

[Privacy Policy](#)

[Accessibility Policy](#)

[Trademark Policy](#)

[Sitemap](#)

Hide Notes

Connect

[Blog](#)

[Contact Us](#)

[Help Center](#)

[Media Kit](#)



© 2022 edX LLC. All rights reserved.
深圳市恒宇博科技有限公司 [粤ICP备17044299号-2](#)