Q1 Instructions
0 Points

To receive full credit on this quiz, you must score at least 50%.

The Github repo for Lecture 10 is at:
https://github.com/ucsd-cse12-sp21/ucsd-cse12-sp21.github.io/tree/master/lectures/lecture-10

Q2 Big O
1 Point

Check which of the following are true:

☐ n + 5n^3 + 8n^4 = O(n)

☐ n! + n^2 = O(nlog(n))

☑ 2^n + nlog(n) = O(n!)

☐ 1/(n^2) + 5 = O(1/n)

Q3 Time Complexities
1 Point

Given n is a very large number, which of the following correctly orders the time complexities from fastest to slowest:

○ n, log(n), n^2, n!, 2^n

○ log(n), n, n^2, n!, 2^n

○ n, 2^n, n^2, n!, log(n)

◉ log(n), n, n^2, 2^n, n!

○ log(n), n, n!, n^2, 2^n

○ log(n), n, n!, 2^n, n^2