MITx: 6.00.1x Introduction to Computer Science and Programming Using Python

<u>Help</u>

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Problem 3

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Problem 3

10/10 points (graded)

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 $O(c^n)$. Assume c is some constant.

Clicking Check will grade ALL the sub-problems. You have 2 attempts for this problem.

$$2.0.0001n^2 + 20000n - 90000$$

3.
$$20n + 900 \log(n) + 100000$$

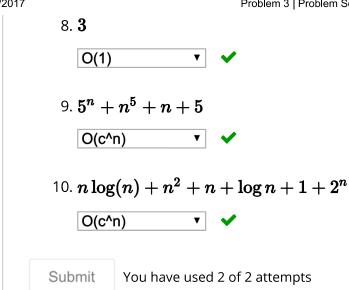
4.
$$(\log(n))^2 + 5n^7$$

5.
$$n^{200} - 2n^{30}$$

6.
$$30n^2 + n\log(n)$$

7.
$$n \log(n) - 3000n$$





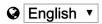
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Topic: Problem Set 6 / Problem 3

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