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 $O(c^n)$.

- $5n$

  O(n) ✔

- $3n^2 + 2n - 100$

  O(n^c) ✔

- $10\log(n) + 5n$

  O(n) ✔

- $10\log(n) + 5n^2$

  O(n^c) ✔

- $3n^3 - 2000n^2$

  O(n^c) ✔

- $2n^2$

  O(n^c) ✔

- $50n + n\log(n)$

  O(n log(n)) ✔

- $1000 + 2000000$

  O(1) ✔

- $2^n + n^2$

  O(c^n) ✔

- $\log n + 1000$

  O(log(n)) ✔

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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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