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Exercise 5

Finger Exercises due Aug 5, 2020 20:30 -03

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: $O\left(1\right), O\left(\log\left(n\right)\right), O\left(n\right), O\left(n\log\left(n\right)\right), O\left(n^c\right)$ or $O\left(c^n\right)$.

- $5n$

| O(n) ⌄ | ✔ **Answer:** O(n)

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

| O(n^c) ⌄ | ✔ **Answer:** O(n^c)

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

| O(n) ⌄ | ✔ **Answer:** O(n)

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

| O(n^c) ⌄ | ✔ **Answer:** O(n^c)

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

| O(n^c) ⌄ | ✔ **Answer:** O(n^c)

- $2n^2$

| O(n^c)   ⌄ | ✔ **Answer:** O(n^c)

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

| O(n log(n))   ⌄ | ✔ **Answer:** O(n log(n))

- $1000 + 2000000$

| O(1)   ⌄ | ✔ **Answer:** O(1)

- $2^n + n^2$

| O(c^n)   ⌄ | ✔ **Answer:** O(c^n)

- $\log n + 1000$

| O(log(n))   ⌄ | ✔ **Answer:** O(log(n))

[Enviar]

ⓘ   Answers are displayed within the problem

Exercise 5

Topic: Lecture 11 / Exercise 5

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