NEXT >

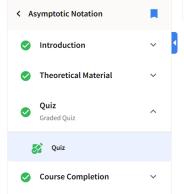


Course is completed. The course result can no longer be changed.

## **Asymptotic Notation**



Home / Course / Asymptotic Notation / Quiz





Now, it's time for a short quiz to recap what you've learned. The quiz is **graded**, so you can take it only once. Each question will be followed by feedback explaining why your answer is right or wrong. If your answer is incorrect, you will see a suggestion of what you might need to refresh your memory. Good luck!

Read the question below and select the correct answer. Then, click "Submit." For a given function g(n), what is the correct definition of O(g(n))?

< PREVIOUS

- $O\left(g\left(n
  ight)
  ight)$  = {  $f\left(n
  ight)$  : there exist positive constants  $c,n_0$  such that  $0\leq g\left(n
  ight)\leq cf\left(n
  ight)$  for all  $n\geq n_0$  }
- $lack O\left(g\left(n
  ight)
  ight)$  = {  $f\left(n
  ight)$  : there exist positive constants  $c,n_0$  such that  $0\leq f\left(n
  ight)\leq cg\left(n
  ight)$  for all  $n\geq n_0$  }
- $O\left(g\left(n\right)\right)$  = { $f\left(n\right)$  : there exist positive constants  $n_0$  such that  $0 \leq f\left(n\right) \leq g\left(n\right)$  for all  $n \geq n_0$  }



Correct: Great job!

Submit You have used 1 of 1 attempt

Read the question below and select **all** the answers that are correct. Then, click "Submit."

Which TWO of the following statements are correct?

- $3n^5+2n^3+n\log n=\Omega\left(n^3
  ight)$
- $3n^5+2n^3+n\log n=\Omega\left(n^6
  ight)$
- $n=\Omega\left(n^2
  ight)$



Correct: Well done!

Submit You have used 1 of 1 attempt

C All Rights Reserved