



# Challenge 2: Big O of Nested Loop with Subtraction

Compute Big O of an algorithm which involves nested loops and the loop variables decrement with subtraction.

We'll cover the following ^

- Problem Statement
- Code Snippet

## Problem Statement #

Let's test our time complexity skills. Compute the Big O time complexity of the code snippet given below. It is better to solve it on a piece of paper and then see if your answer matches with the correct option!

## Code Snippet #

```
1 n = 10 # n can be anything, this is just an example
2 sum = 0
3 pie = 3.14
4 for var in range(n, 1, -3):
5     print(pie)
6     for j in range(n, 0, -1):
7         sum += 1
8
9 print(sum)
10
```





If you have computed the time complexity of the code snippet above, answer the following question and see if your result matches the correct answer!



Which of the following best describes the Big(O) of the program written above?

A)  $O(n)$

B)  $O(n \log_3 n)$

C)  $O(\log_3 n)$

D)  $O(n^2)$

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Check out the next lesson for an explanation of the solution!

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Solution Review: Big O of Nested Loo...

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