



## 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 #

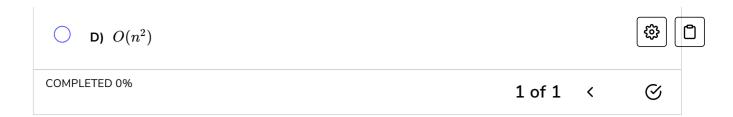
Let's test our time complexity skills. Compute the Big O time complexity of the code snippet given below. It is better to solve it on a piece of paper and then see if your answer matches with the correct option!

## 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!

Q	Which of the following best describes the Big(O) of the program written above?
0	A) $O(n)$
0	B) $O(nlog_3n)$
0	C) $O(log_3n)$



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

