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

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

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

print(sum)

```

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?

A) $O(n)$

B) $O(nlog_3n)$

C) $O(log_3n)$

D) $O(n^2)$

COMPLETED 0%

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

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