



Challenge 1: Big O of Nested Loop with Addition

Compute the Big O complexity of an algorithm which involves nested loops where the loop variables increase with addition.

We'll cover the following ^

- Problem Statement
 - Code Snippet

Problem Statement

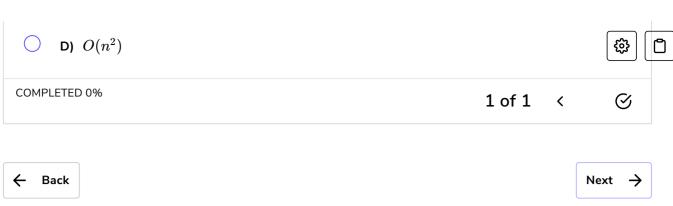
Compute the Big O complexity of the code snippet given below. It is better to solve it on a piece of paper and then see if your answer matches with the correct option!

Code Snippet

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

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) $O(log_3n)$



Common Complexity Scenarios

Solution Review: Big O of Nested Loo...

✓ Completed

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