

Challenge 6: Nested Loop with Multiplication (Advanced)

A more advanced exercise based on the Big O of an algorithm which involves nested loops and the loop variables increment with multiplication.

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 \# can be anything
 2 \quad sum = 0
 3 pie = 3.14
    for i in range(n):
        j = 1
 5
 6
        while j < i:
 7
             sum += 1
             j *= 2
 9
         print(sum)
10
\triangleright
```

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) $O(nlogn)$
0	B) $O(n)$
0	C) $O(n^2)$
0	D) $O(n^2 log n)$

COMPLETED 0%

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Solution Review: Nested Loop with M...

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✓ Completed

Next

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