



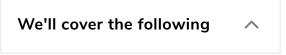






## Challenge 7: Nested Loop with Multiplication (Pro)

A pro-level exercise based on the Big O of an algorithm which involves nested loops and the loop variables increment with multiplication and addition.



- 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  sum = 0
3  pie = 3.14
4  j = 1
5  for var in range(n):
6   while j < var:
7     sum += 1
8     j *= 2
9     print(sum)
10</pre>
```





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(logn)B) O(nlogn)C) O(n)D)  $O(n^2 log n)$ **Submit Answer** Reset Quiz C

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Solution Review: Nested Loop with M...

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