



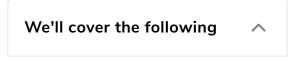






Challenge 3: Big O of Nested Loop with Multiplication

Compute Big O of an algorithm which involves nested loops and the loop variables increment with multiplication.



- Problem Statement
 - Code Snippet

Problem Statement

Compute the Big O time complexity of the following code the way we did in the previous lessons. It is better to solve it on a piece of paper and then see if your answer matches with the correct option!

Code Snippet

You have to calculate the time complexity of code given below:

```
1  n = 10 # Can be anything
2  sum = 0
3  pie = 3.14
4  var = 1
5  while var < n:
6    print(pie)
7    for j in range(var):
8        sum += 1
9    var *= 2</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) $O(nlogn)$	
B) $O(n^2 log n)$	
C) $O(n)$	
D) $O(n^2)$	
	Submit Answer
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