









## 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
    sum = 0
    pie = 3.14
    for i in range(n):
 5
        j = 1
        while j < i:
 6
 7
            sum += 1
 8
            i *= 2
        print(sum)
10
```



Answer the following question and see if your result matches the correct answer!

Which of the following labove?	best describes the Big(O) of the program written
A) $O(nlogn)$	
<b>B)</b> $O(n)$	
C) $O(n^2)$	
D) $O(n^2 log n)$	
	Submit Answer
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Solution Review: Nested Loop with M...

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