

Q4. Find Number of Iterations - 9 🔐 🕢 Solved

Using hints except Complete Solution is Penalty free

**Use Hint** 

Find the total number of iterations in the following code snippet:

NOTE: ^ denotes power, not Bitwise XOR.

	e l	Ĵ	iteration	
•	1	[1,3'] = [2, 3]	3	
	2	[2,3] = [2,9]	9	
	3	[1, 3] = [2, 27]	7 Tatce Iterations	
	4	[1,3] =[1,8]	81 7+ 9+ 27++3N -	+ C.P
	```		$\begin{array}{c}                                     $	
	ν.	[1,3 <sup>N</sup> ]	$\frac{1}{3^{N}} \qquad \frac{1}{2} = \frac{\alpha C(1-k^{N})}{(1-k)}$	

$$= 3(1-3^{n})$$

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$$=\frac{3}{2}(1-3^{N})$$