

**PRACTICE** 

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Practice > Python > Math > Power - Mod Power

## Power - Mod Power ☆

81/115 challenges solved

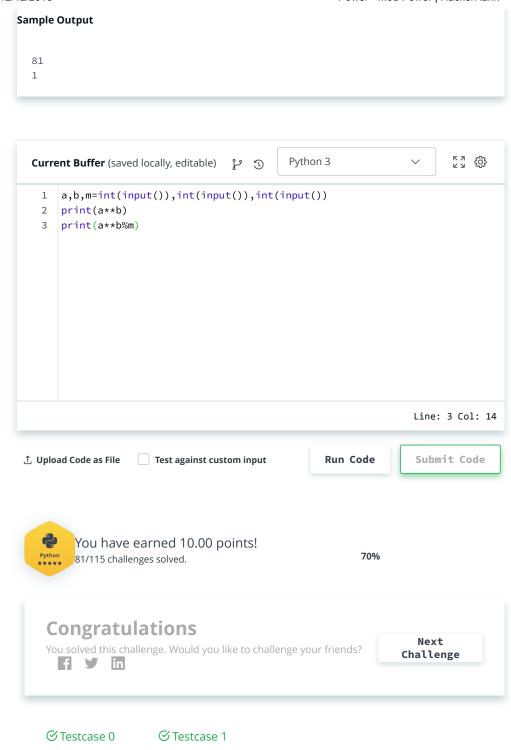
Rank: **3319** | Points: **1575** ①



## X Your Power - Mod Power submission got 10.00 points. Share Tweet Try the next challenge | Try a Random Challenge

Problem	Submissions	Leaderboard	Discussions	Editorial 🖰		
So far, we have only	heard of Python's pow	ers. Now, we will witness	them!		Author	shashank21
Powers or exponent	s in Python can be calc	e power	Difficulty	Eas		
function $\pmb{a^b}$ as show	n below:				Max Score Submitted By	4636
>>> pow(a,b)					NEED HELP?	
or					View discussions	
					☐ View editorial	
>>> a**b					▼ View top submission	ns
t's also possible to calculate $a^b \mod m$ .					RATE THIS CHALLENGE	
					公公公公公	
>>> pow(a,b,m)	)				MORE DETAILS	
This is very helpful in computations where you have to print the resultant % mod.					<b>ل</b> Download problem	statement
<b>Note</b> : Here, $m{a}$ and $m{b}$ can be floats or negatives, but, if a third argument is present, $m{b}$ cannot be negative.					Download sample te Download samp	est cases
<b>Note</b> : Python has a math module that has its own <i>pow()</i> . It takes two arguments and returns a float.					Suggest Edits	
Frankly speaking, we	e will never use <i>math.po</i>	ow().				
Гask						
ou are given three	integers: $oldsymbol{a}$ , $oldsymbol{b}$ , and $oldsymbol{m}$ , re	espectively. Print two line	es.			
The first line should	print the result of power	(a,b). The second line sho	ould print the result of	pow(a,b,m).		
nput Format						
The first line contain	is $oldsymbol{a}$ , the second line cor	ntains $oldsymbol{b}$ , and the third lir	ne contains $m{m}$ .			
Constraints						
$1 \le a \le 10$						
$1 \le b \le 10$						
$2 \le m \le 1000$						
Sample Input						

5



Input (stdin)	Download	Expected Output	Download
3		81	
4		1	
5			
Compiler Message			
Success			

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