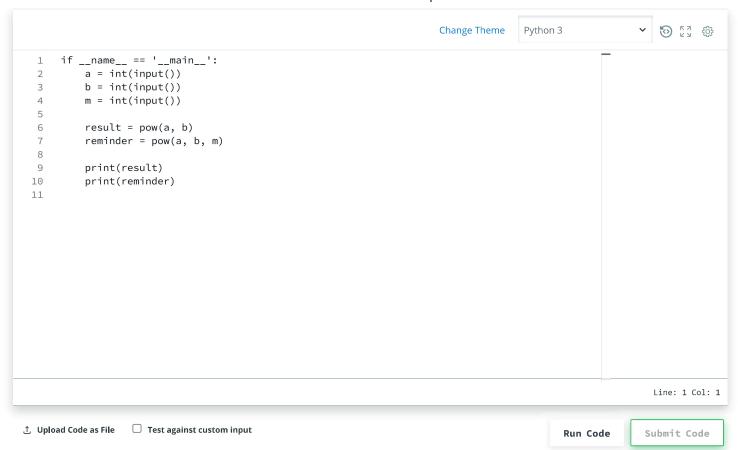
Power - Mod Power ★



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Problem	Submissions	Leaderboard	Editorial 습
So far, we have only hea	ard of Python's powe	ers. Now, we will witnes	ss them!
Powers or exponents in	Python can be calcu	llated using the built-in	n power function. Call the power function $oldsymbol{a}^{oldsymbol{b}}$ as shown below:
>>> pow(a,b)			
or			
>>> a**b			
lt's also possible to calcu	ulate $a^b \mod m$.		
>>> pow(a,b,m)			
This is very helpful in co	mputations where y	ou have to print the res	sultant % mod.
Note : Here, $m{a}$ and $m{b}$ can	be floats or negativ	es, but, if a third argum	nent is present, $m{b}$ cannot be negative.
Note: Python has a mat	h module that has it	s own pow(). It takes tw	wo arguments and returns a float. Frankly speaking, we will never use math.pow().
Task			
You are given three inte			
	it the result of pow(a	a,b). The second line sn	nould print the result of pow(a,b,m).
Input Format The first line contains a ,	the second line con	tains b . and the third li	ine contains $m{m}_{i}$
Constraints		2,	
$1 \le a \le 10$			
$1 \le b \le 10$			
$2 \leq m \leq 1000$			
Sample Input			
3			
4			
5			
Sample Output			
81			
1			

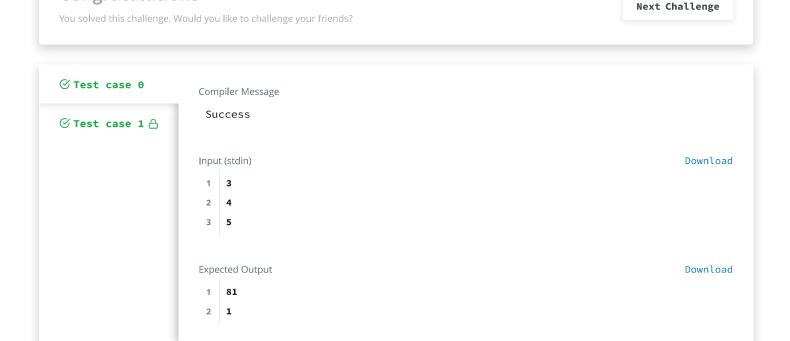


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