

Curso > Week 2... > 4. Func... > Exercis...

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Exercise: power iter

Exercise: iter power

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 6 minutes

Write an iterative function [iterPower(base, exp)] that calculates the exponential base $^{\rm exp}$ by simply using successive multiplication. For example, [iterPower(base, exp)] should below.

This function should take in two values - base can be a float or an integer; exp will be an integer > 0. It should return one numerical value. Your code must be iterative - use of the ** operator is not allowed.

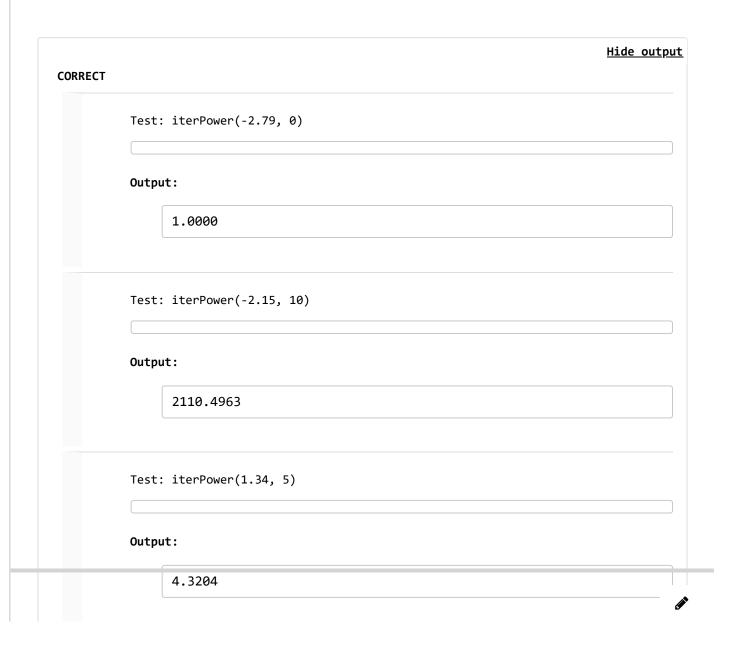
```
1 def iterPower(base, exp):
 2
 3
      base: int or float.
 4
      exp: int >= 0
 5
 6
      returns: int or float, base^exp
7
 8
      # Your code here
9
      resultado = 1
10
      for i in range(exp):
11
          resultado *= base
12
      return resultado
```

Press ESC then TAB or click outside of the code editor to exit

Correta

```
def iterPower(base, exp):
    base: int or float.
    exp: int >= 0
    returns: int or float, base^exp
    result = 1
    while exp > 0:
        result *=base
        exp -= 1
    return result
```

Test results



	Test: iterPower(-1.93, 8)
	Output:
	192.5123
	Test: iterPower(0.46, 8)
	Output:
	0.0020
	Test: iterPower(2.57, 2)
	Output: 6.6049
	0.0049
	Test: iterPower(-3.82, 6)
	Output:
	3107.2785
	Test: iterPower(9.96, 2)
	Output:
	99.2016
	<u>Hide output</u>
Enviar	

1 Answers are displayed within the problem

Exercise: power iter

Topic: Lecture 4 / Exercise: power iter

Ocultar discussão

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Snow	all posts v por atividade rece	ente 🗸
	SPOILER) For loop like last slide understand this may be obvious to some after week 1 but i wanted to share my experience becaus	2
	RADER disappointing recently took Harvard CS50 and their automatic grading system is FAR superior. I don't want to spe	8
<u>r</u>	rading process running forever despite closing, clearing cache etc, closing and esetting (with iterPower and recurPower) and this is a common issue, I've had it in previous exercises, and I fixed it by following the instruct	1 new_
-	ode isn't Iterative keep getting a response that my code needs to be iterative, not recursive. I don't understand why si	3
	lathematical trivia id you know that anything to the power of `0 = 1`? Or that `0/0 = 1`? Or that `i` is technically any	10
	<u>/peError</u> hy do I keep getting this message: TypeError: a float is required? I haven't defined the type in my c	2 new_
-	st Comprehensions oes the grader not consider a list comprehension an iteration?	1
-	$xp \ge 0$ i, The docstring defines exp as an int with the condition >= 0. The grader requires that the result of	2
	ot sure what I am doing wrong here? i, I am stuck on this one and I can't seem to understand what I am doing wrong? I have avoided usi	3
	ow to solve the "Grader processing forever" problem? submitted my solution 6 hours ago. I've tried refreshing the page, clicking the submit button again,	7
	Beware of spoiler) Incorrect result value itially, I had almost the same code, but then started digging deeper and found out that I shouldn't	3

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