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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^{exp} by simply using successive multiplication. For example, `iterPower(base, exp)` should compute base^{exp} by multiplying `base` times itself `exp` times. Write such a function 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

[Hide output](#)

CORRECT

Test: iterPower(-2.79, 0)

Output:

1.0000

Test: iterPower(-2.15, 10)

Output:

2110.4963

Test: iterPower(1.34, 5)

Output:

4.3204



Test: iterPower(-1.93, 8)

Output:

192.5123

Test: iterPower(0.46, 8)

Output:

0.0020

Test: iterPower(2.57, 2)

Output:

6.6049

Test: iterPower(-3.82, 6)

Output:

3107.2785

Test: iterPower(9.96, 2)

Output:

99.2016

[Hide output](#)

Enviar



i Answers are displayed within the problem

Exercise: power iter


Ocultar discussão


Topic: Lecture 4 / Exercise: power iter


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-  (SPOILER) For loop like last slide 2


I understand this may be obvious to some after week 1 but i wanted to share my experience becaus...
-  GRADER disappointing 8


I recently took Harvard CS50 and their automatic grading system is FAR superior. I don't want to spe...
-  Grading process running forever despite closing, clearing cache etc, closing and resetting (with iterPower and recurPower) 1 new_


I know this is a common issue, I've had it in previous exercises, and I fixed it by following the instruct...
-  Code isn't Iterative 3


I keep getting a response that my code needs to be iterative, not recursive. I don't understand why si...
-  Mathematical trivia 10


Did you know that anything to the power of `0 = 1`? Or that `0/0 = 1`? Or that `i` is technically any...
-  TypeError 2 new_

Why do I keep getting this message: TypeError: a float is required? I haven't defined the type in my c...
-  List Comprehensions 1

Does the grader not consider a list comprehension an iteration?
-  exp >= 0 2

Hi, The docstring defnies exp as an int with the condition >= 0. The grader requires that the result of ...
-  Not sure what I am doing wrong here? 3

Hi, I am stuck on this one and I can't seem to understand what I am doing wrong? I have avoided usi...
-  How to solve the "Grader processing forever" problem? 7

I submitted my solution 6 hours ago. I've tried refreshing the page, clicking the submit button again,...
-  (Beware of spoiler) Incorrect result value 3

Initially, I had almost the same code, but then started digging deeper and found out that I shouldn't ...

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