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## Exercise: for

Finger Exercises due Aug 5, 2020 20:30 -03 *Completo*

### Exercise: for exercise 1

5.0/5.0 points (graded)

**ESTIMATED TIME TO COMPLETE: 5 minutes**

In this problem you'll be given a chance to practice writing some for loops.

1. Convert the following code into code that uses a for loop.

prints   
prints   
prints   
prints   
prints   
prints

```
1 for i in range(2,11,2):  
2     print(i)  
3 print('Goodbye!')
```



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

Correta

```
# There are many ways to solve this problem! Here is one:
for count in range(11):
    if count != 0 and count % 2 == 0:
        print(count)
print("Goodbye!")

# Here is another:
for count in range(2, 12, 2):
    print(count)
print("Goodbye!")
```

## Test results

[Hide output](#)

**CORRECT**

What's printed?

**Output:**

```
2
4
6
8
10
Goodbye!
```

[Hide output](#)

Enviar

**i** Answers are displayed within the problem

## Exercise: for exercise 2



5.0/5.0 points (graded)

**ESTIMATED TIME TO COMPLETE: 5 minutes**

2. Convert the following code into code that uses a for loop.

```
prints Hello!
prints 10
prints 8
prints 6
prints 4
prints 2
```

```
1 print('Hello!')
2 for i in range(10,1,-2):
3     print(i)
```

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

Correta

```
# There are always many ways to solve a programming problem. Here is one:
print("Hello!")
for num in range(0, 10, 2):
    print(10 - num)

# Here is another:
print("Hello!")
for num in range(10, 0, -2):
    print(num)
```

Test results

CORRECT

[Hide output](#)

What's printed?

Output:

```
Hello!
10
8
6
4
2
```

[Hide output](#)

Enviar

**i** Answers are displayed within the problem

## Exercise: for exercise 3

5.0/5.0 points (graded)

**ESTIMATED TIME TO COMPLETE: 5 minutes**

3. Write a for loop that sums the values 1 through `end`, inclusive. `end` is a variable that we define for you. So, for example, if we define `end` to be 6, your code should print out the result:

21

which is  $1 + 2 + 3 + 4 + 5 + 6$ .

For problems such as these, do not include `input` statements or define variables we will provide for you. Our automating testing will provide values so write your code in the following box assuming these variables are already defined.

Hint: Don't Use A Variable Called 'sum'

For reasons related to our grader, you cannot call your variable `sum`. Call it anything else, but not `sum`. If you do, you will be marked incorrectly.

This is because `sum` is a Python built-in function for summing a list of numbers – we prevent you from using it because if you did it'd defeat the point of the exercise.



Take it as a lesson – overwriting built-in functions is generally bad practice anyway (you'd not call a variable `print`, or `while` or `elif` - because if you did, how would you use those built-in functions/keywords?). A general rule of thumb is: when writing code in Idle, if a word turns orange or purple, then it is special in Python - it is either a keyword or a built in function. Don't give your variables the same name as any of the Python keywords or built in functions.

Here is a [list of Python keywords](#).

Here is a [list of Python built-in functions](#).

You will learn more about functions in the next lecture sequence!

```
1 soma=0
2 for i in range(1,end+1):
3     soma += i
4 print(soma)
```

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

Correta

```
# Here is one of a few ways to solve this problem:
total = 0
for next in range(1, end+1):
    total += next
print(total)

# Here is another:
total = end
for next in range(end):
    total += next
print(total)
```

## Test results



[Hide output](#)**CORRECT**

end = 7

**Output:**

28

end = 23

**Output:**

276

end = 11

**Output:**

66

end = 15

**Output:**

120

end = 13

**Output:**

91

Hide output

Enviar

 Answers are displayed within the problem

Exercise: for exercises

Ocultar discussão

Topic: Lecture 2 / Exercise: for exercises


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After tackling the while loop and banging my head against a wall for days on end, all thanks to the...

 Why my code is incorrect? 2


I can't uderstand why muy code is labeled as incorrect: the end varibale is defined by the system...

 exercise 3 3


why i get not correct answer with this code ? x = 0 for i in range(6): i+=1 x+= i print(x)

 Question 2: Ranges 4


Why doesn't it work if you use the (10,2,-2) range instead of (10,0,-2)? I'm a bit confused, could s...

 Grade 2


Does getting an incorrect result before the correct one affect your grade?

 Still processing... 2


A couple of days ago, I did the exercise 2, but the grader is still processing. Why does it happen? T...

 Graders are down?? 8


I think graders are not working I've submitted 3 exercises and in all of them it just keeps spinning...

 a little demoralizing 7


Wish they wouldn't estimate that the exercises will take so little time. Five minutes? Taking me m...

 why is this the answer to number 4? I'm trying to translate to myself (in clear english) why I'm taking the steps that I am 3

answer: total = 0 for next in range(1, end+1): total += next print(total) I'm guessing "total" is where...

 Graders too slow? 3

Hello! Is there any problem with the graders? They keep spinning forever. Thanks in advance.

 Spoiler: Q3 a keep getting incorrect!? 4

This is my code: end = 6 , n = 0 for i in range(1,end+1):, n += i ,print(n) what is wrong?

<div><div>?</div><div><u>Problem with the answer ex 2</u></div></div>	2
<div>Hi, I don't understand what is happening with the grader, I am constantly putting codes that gives...</div>	
<div><div>?</div><div><u>why is this incorrect?</u></div></div>	3
<div>n = 0 for count in range(end) if n == 0: n=1 else : n= 2*n +1 print(n).</div>	
<div><div>?</div><div><u>Question 3</u></div></div>	

