

Curso > Week 1... > 2. Core... > Exercis...

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Exercise: while

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

Exercise: while 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 while loops.

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

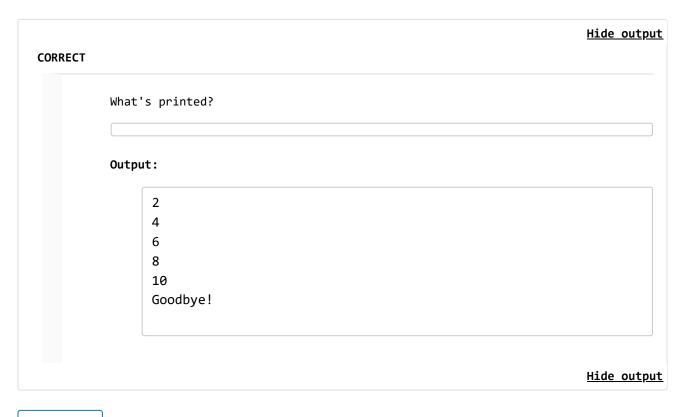
```
print 2
prints 4
prints 6
prints 8
prints 10
prints Goodbye!
```

```
1 valor=2
2 while valor<=10:
     print(valor)
     valor += 2
5 print('Goodbye!')
```

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

Correta

Test results



Enviar

Exercise: while exercise 2

5.0/5.0 points (graded)

ESTIMATED TIME TO COMPLETE: 5 minutes

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

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

```
1 valor=10
2 print('Hello!')
```

```
3 while valor >= 2:
     print(valor)
     valor -= 2
```

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

Correta

Test results

		<u>Hide out</u>
ORRECT		
	What's printed?	
	Output:	
	Hello!	
	10	
	8	
	6	
	4	
	2	
		<u>Hide out</u>

Exercise: while exercise 3

5.0/5.0 points (graded)

Enviar

ESTIMATED TIME TO COMPLETE: 5 minutes

3. Write a while 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. In Canopy, the color is green. Don't give your variables the same name as any of the Python keywords or built in functions.

Here is a <u>list of Python keywords</u>.

Here is a <u>list of Python built-in functions</u>.

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

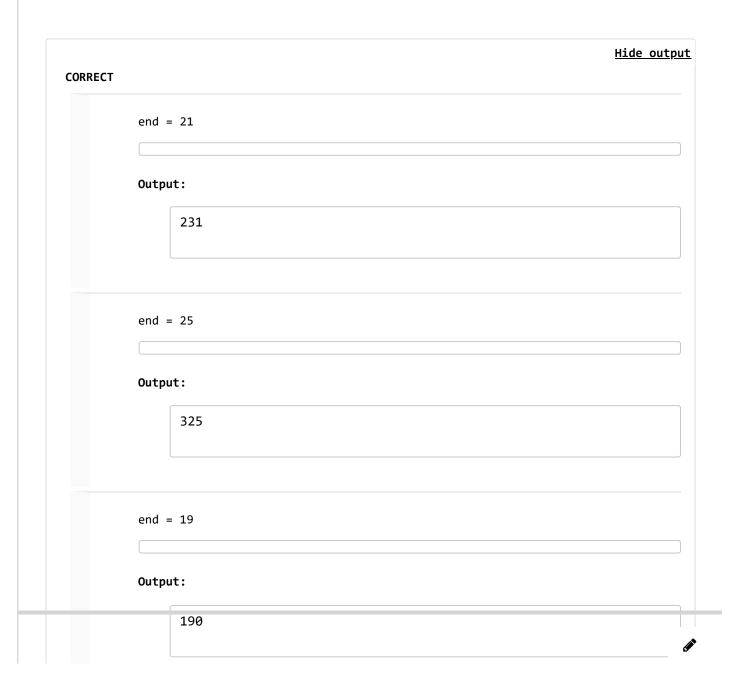
```
1 conta = 1
2 soma = 0
3 while conta <= end:
     soma += conta
5
     conta += 1
6 print(soma)
```

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

Correta

```
\mbox{\tt\#} Here is one of a few ways to solve this problem:
total = 0
current = 1
while current <= end:
    total += current
    current += 1
print(total)
```

Test results



end = 16		
Output:		
136		
end = 25		
Output:		
325		
		<u>Hide out</u>
Enviar		
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Cercise: while Sic: Lecture 2 / Exercise: while Show all posts My code Exercise 2 num=10 print('Hello!'). Error Checking Partly for fun and partl Hi,for Excercise 3. Though my code is givi	why is it wrong? It showed what was requested. print(num) while num <= 10 and num > 2: num-=2 print(num) ly for good coding practice, in exercise 3 I included an if chec	por atividade recente solution in a portatividade recente solution

2020	Exercise: while 2. Core Elements of Programs (TIME: 54:14) Material didático 6.00.1x edit	X
	It took me about 12 hours to figure this out, using trial and error, and carefully going through TA r	7
?	question 3 can some one please elaborate how you broke down the problem and then applied the while loo	27
?	<pre>why my solution is incorrect ? total=0 while x>0 : total +=x x -=1 print(total)</pre>	4
2	Still processing A couple of days ago, I did the exercise 3, but the grader is still processing. Why does it happen? T	4
?	question 3 blew off my mind	3
?	Question 3: Using two Variables Hi, based on what I read from the discussion, I know you need to use two variables for question 3	1
?	Why I am wrong? num =0 while num <10: num+=2 sum(num) while num>10 print("Hello!")	3
?	<u>'Processing' of Exercise: while exercise 3</u> <u>Hi, exercise 3 of 'Exercise: while' has been in 'Processing for the last 2 days. Please resolve it.</u>	2
?	<u>Maybe I'm missing something</u> while True: ran = sum(range(end)) print(ran + end) break It doesn't feel like the cleanest code, but	2

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