Congratulations! You passed!

Grade received 100% To pass 80% or higher

Go to next item

1. How are while loops and for loops different in Python? 1 / 1 point While loops can be used with all data types, for loops can only be used with numbers. O For loops can be nested, but while loops can't. While loops iterate while a condition is true, for loops iterate through a sequence of elements. While loops can be interrupted using break, for loops using continue. You got it! We can use while loops when we want our code to execute repeatedly while a condition is true, and for loops when we want to execute a block of code for each element of a sequence. 2. Fill in the blanks to make the factorial function return the factorial of n. Then, print the first 10 factorials (from 0 to 9) with the corresponding number. Remember that the factorial 1/1 point of a number is defined as the product of an integer and all integers before it. For example, the factorial of five (5!) is equal to 1*2*3*4*5=120. Also recall that the factorial of zero (0!) is equal to 1. def factorial(n): result = 1 for x in range(1,n+1):
result = result * x return result Run for n in range(0,10): print(n, factorial(n)) **⊘** Correct Great work! The pieces of code you're tackling keep getting more complex, you're doing a great job! 3. Write a script that prints the first 10 cube numbers (x^{**} 3), starting with x=1 and ending with x=10. 1/1 point for x in range(1,11): print(x**3) Run Reset **⊘** Correct You nailed it! You got the code to print the first 10 cubes. 4. Write a script that prints the multiples of 7 between 0 and 100. Print one multiple per line and avoid printing any numbers that aren't multiples of 7. Remember that 0 is also a 1/1 point multiple of 7. for x in range(0,100,7): print(x) Run ✓ Correct Awesome! You're getting Python to do all the work for you. 5. The retry function tries to execute an operation that might fail, it retries the operation for a number of attempts. Currently the code will keep executing the function even if it 1 / 1 point succeeds. Fill in the blank so the code stops trying after the operation succeeded. def retry(operation, attempts):