Congratulations! You passed!

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1/1 point

1. Fill in the blanks of this code to print out the numbers 1 through 7.



2. The show_letters function should print out each letter of a word on a separate line. Fill in the blanks to make that happen.

1/1 point

```
1 def show_letters(word):
2 for letter in word:
3 print(letter)
4
5 show_letters("Hello")
6 # Should print one line per letter

H
e
e
1
1
0
Correct
```

Great job! You're working the "for" loops the way they're supposed to be done!

3. Complete the function digits(n) that returns how many digits the number has. For example: 25 has 2 digits and 144 has 3 digits. **Tip:** you can figure out the digits of a number by dividing it by 10 once per digit until there are no digits left.

1/1 point

4. This function prints out a multiplication table (where each number is the result of multiplying the first number of its row by the number at the top of its column). Fill in the blanks so that calling multiplication_table(1, 3) will print out:

Woohoo! You've cracked the code of writing code!

1 / 1 point

123

⊘ Correct

246

369

5. The counter function counts down from start to stop when start is bigger than stop, and counts up from start to stop otherwise. Fill in the blanks to make this work correctly.

1 / 1 point

```
def counter(start, stop):
                x = start
                if start>stop:
                     return_string = "Counting down: "
                     while x >= stop:
                          return_string += str(x)
                          if x > stop:
    return_string += ","
    10
                else:
                     return_string = "Counting up: "
    11
                     while x <= stop:
    13
                         return_string += str(x)
    14
                          if x < stop:
    15
                              return_string += ","
                          x += 1
    16
    17
                return return_string
    18
           print(counter(1, 10)) # Should be "Counting up: 1,2,3,4,5,6,7,8,9,10"
print(counter(2, 1)) # Should be "Counting down: 2,1"
print(counter(5, 5)) # Should be "Counting up: 5"
                                                                                                             Run
    20
    21
                                                                                                             Reset
 Counting up: 1,2,3,4,5,6,7,8,9,10
 Counting down: 2,1
 Counting up: 5
⊘ Correct
      You nailed it! You've figured out all of the situations that
```

6. The even_numbers function returns a space-separated string of all positive numbers that are divisible by 2, up to and including the maximum that's passed into the function. For example, even_numbers(6) returns "2 4 6". Fill in the blank to make this work.

1/1 point

⊘ Correct

need to be considered!

Woohoo! You remembered all of the elements of the range of the for-loop, well done!

7. The following code raises an error when executed. What's the reason for the error?

1/1 point

	O Incrementing by 10 instead of 1	
	Failure to initialize variables	
	O Nothing is happening inside the while loop	
	Wrong comparison operator	
	○ Correct Well done! The variable year needs to be initialized prior to being used in the while loop.	
8.	What is the value of x at the end of the following code?	1/1 point
	1 for x in range(1, 10, 3): 2 print(x)	
	7	
	Correct You got it! The upper limit of a range isn't included, which means that the loop stops before reaching it. The increment is 3, so the loop stops when x reaches 7.	
9.	What is the value of y at the end of the following code?	1/1 point
	1 for x in range(10): 2 for y in range(x): 3 print(y)	
	8	
	Correct Great job! The upper limit of a range isn't included, which means that the outer loop goes up to 9, so the highest upper limit for the inner loop is 9, which is also not included.	
10	• How does this function need to be called to print yes, no, and maybe as possible options to vote for?	1 / 1 point
	<pre>1 def votes(params): 2 for vote in params:</pre>	
	3 print("Possible option:" + vote) 4	
	O vistos(#vise# #pa# #maydo#)	
	votes("yes", "no", "maybe")	
	ovetes((see, no, maybe)	
	oves((yes, no, maybe))	
	votes(['yes', 'no', 'maybe'])	
	 Correct Excellent! This function is looking for one argument, and the list of strings is just one argument. 	