

Think Python:
Chapter 6 (up to *More Recursion*)
and Chapter 7

What's the name for code that cannot be reached by the flow of execution?

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Dead code

Incremental development involves the use of _____ variables to hold intermediate values; these variables are usually removed once the code is working.

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temporary

Code that exists only during program development but not the final version is referred to as _____.

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Scaffolding

What is the name for a function that returns a value of either True or False?

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Boolean function

How could the line of code below be improved?

```
if is_prime(num) == True:
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What is the term for adding 1 to the value of a variable?

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Increment(ing)

Decrement(ing)

How could our `palindrome()` function be rewritten as a Boolean function? (Keyboard volunteer needed for instructor computer!)

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```
>>> def palindrome(l1,l2,l3,l4,l5):  
...     return l1+l2+l3+l4+l5 == l5+l4+l3+l2+l1  
...  
>>> palindrome('l','e','v','e','l')  
True  
>>> palindrome('s','y','r','u','p')  
False  
>>>
```

What is the term for the code below?

```
>>> while True:  
...     print("Hush, hush, Sweet Charlotte!")  
...  
>>>
```


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>>> while True:  
...     print("Hush, hush, Sweet Charlotte!")  
...  
>>>
```

Infinite loop (because it never terminates)

What Python statement can be used to exit the type of loop below from within the body of the loop?

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>>> while True:
...     print("Hush, hush, Sweet Charlotte!")
...
>>>
```

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```
>>> while True:  
...     print("Hush, hush, Sweet Charlotte!")  
...  
>>>
```

break

How many lines of output does this code produce?

```
>>> while False:  
...     print("HHSC")  
...  
>>>
```

How many lines of output does this code produce?

```
>>> while False:  
...     print("HHSC")  
...  
>>>
```

Zero!

What does this code output?

```
>>> i = 0
>>> while (i <= 100):
...     print(i)
...     i = i + 2
...
```

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>>> i = 0
>>> while (i <= 100):
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...     i = i + 2
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```

All the even numbers between 0 and 100, inclusive, one per line.

What is the name for what's happening in the first line of code below?

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>>> i = 0
>>> while (i <= 100):
...     print(i)
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...
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Initialization

In the programming world, *repetition* is also known as _____.

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Iteration

A mechanical process for solving a category of problems is known as a(n) _____.

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algorithm