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Daily Coding Problem

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Daily Coding Problem #91

Problem

This problem was asked by Dropbox.

What does the below code snippet print out? How can we fix the anonymous functions to behave as we'd expect?

```
functions = []  
for i in range(10):  
    functions.append(lambda : i)  
  
for f in functions:  
    print(f())
```

Solution

At a first glance, it seems like the snippet should print out from 0 to 9. But actually, it prints 9 10 times.

The problem is that the functions have closure and have access to the non-local variable `i`. We instead want the value of `i` when the functions are declared.

In order to solve this issue, we should capture the value `i` when the functions are declared. This would make `i` a local variable inside the anonymous functions.

```
functions = []  
for i in range(10):  
    functions.append(lambda i=i: i)  
  
for f in functions:  
    print(f())
```