

Quiz 5

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1. Implement a class `LoopList` that has a method `at_index`. If `at_index` is called with an index that is too large, the `LoopList` will loop around back to the beginning.

```
class LoopList:
    """
    >>> x = LoopList([3, 1, 4])
    >>> [x.at_index(i) for i in range(9)] # loops around!
    [3, 1, 4, 3, 1, 4, 3, 1, 4, 3]
    """

    def __init__(self, data):
        self.data = data

    def at_index(self, i):
        return self.data[i % len(self.data)]
```

2. Draw the environment diagram. (This is very hard!)

```
def camp(nile):  
    def ding(ding):  
        nonlocal nile  
        def nile(ring):  
            return ding  
        return nile(ding(1914)) + nile(1917)
```

```
ring = camp(lambda nile: 100)
```

<http://goo.gl/rZJG1P>