

```
"""Lecture 6 Examples"""

from ucb import main, interact

# Currying

def curry2(f):
    """Returns a function g such that g(x)(y) == f(x, y).

    >>> from operator import add
    >>> add_three = curry2(add)(3)
    >>> add_three(4)
    7
    """
    def g(x):
        def inner(y):
            return f(x, y)
        return inner
    return g

def uncurry2(g):
    """Returns a function f such that f(x, y) == g(x)(y).

    >>> from operator import add
    >>> uncurry2(curry2(add))(3, 4)
    7
    """
    def flat(x, y):
        return g(x)(y)
    return flat

def curry2_lambda(f):
    return lambda x: lambda y: f(x, y)

def uncurry2_lambda(g):
    return lambda x, y: g(x)(y)

@main
def run():
    interact()
```