Problem 4. *7pts.*

(a) Define a `lambda` function `f` such that for positive `int`s `n`, `f(n)` is the list consisting of square numbers up to and including `n` squared: `[0, 1, 4, 9, 16, ..., n**2]`.

```
f = lambda n : [i*i for i in range(n+1)]
```

(b) Consider the following code.

```
L = []
L1 = [L]
L2 = [L]

print(L1 is L2, L1[0] is L2[0])
```

Its output is `False True`.

Explain this output by **using a picture**. If you draw a picture like the ones I draw in class, then you will barely need any words because I'll know that you understand.

Bear in mind that I have not explained this example in class (or if I did, I did so fleetingly). Some deductions have to be made based upon the output I have told you.