61A-125 Spring 2016   Name: _____

Discussion Quiz 02   SID: _____

This quiz will **not** affect your grade. It's simply meant to give you a sense of your own understanding. It also serves as a record of your attendance, so make sure to turn it in!

1. Environment Diagrams

Draw the environment diagram for the following code.

```
def flip(pancake):
    if pancake == "cakepan":
        return "pancake"
    elif heat != 4:
        return "cakepan"
    return "flipped"

def cook(pancake, heat, flip):
    if heat // 10:
        return "burnt"
    heat += 3
    pancake = flip(pancake)

    def cook(pancake, heat, flip):
        if heat >= 5:
            return "done"
        heat += 1
        pancake = flip(pancake)
        return cook(pancake, heat, lambda p: flip(p))

    return cook(pancake, heat, lambda p: flip(p) \
            if heat % 2 == 0 else p)

pancake, heat = "batter", 1
cook(pancake, heat, flip)
```