## CSC148 Worksheet 17 Solution

Hyungmo Gu

April 27, 2020

## Question 1

• We need to implement the base case for this function.

The docstring tells us the function does nothing if <obj >is an int.

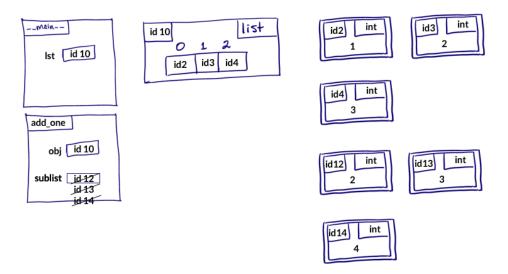
Using this fact, we can write that

```
def add_one(obj: Union[int, List]) -> None:
          """Add one to every number stored in <obj>. Do nothing if <obj
     > is an int.
          If <obj> is a list, *mutate* it to change the numbers stored.
3
          >>> 1st0 = 1
4
          >>> add_one(lst0)
5
          >>> lst0
6
          >>> lst1 = []
          >>> add_one(lst1)
9
          >>> lst1
10
          >>> lst2 = [1, [2, 3], [[[5]]]]
12
          >>> add_one(lst2)
13
          >>> 1st2
14
          [2, [3, 4], [[[6]]]]
15
16
17
          if isinstance(obj, int):
18
19
               return obj
```

Listing 1: worksheet\_17\_q1\_solution.py

## Question 2

• No values in *obj* would change.



## Question 3