Lecture 07 Exercises

CS 51P – Fall 2019

What (decimal) numbers are represented by the following (binary) values?

101111

110011

11111100011

Draw the time sequence for the stack frame generated by the call foo(2, 3).

def foo(a, b):

1. x = a + b
2. y = 2 \* b
3. return 2 \* x + y

Work through the time sequence for the stack frame generated by the call get\_pos\_int(). Assume the first user input is “hello” and the second user input is “47”

def is\_pos\_int(s):

1. if str.isdigit(s):
2. return int(s) > 0
3. else:
4. return False

def get\_pos\_int():

1. done = False
2. while not Done:
3. s = input()
4. done = is\_pos\_int(s)
5. return s