CS21: INTRODUCTION TO COMPUTER SCIENCE

Prof. Mathieson

Fall 2018

Swarthmore College

Outline Oct 5:

- Quiz 2
- Stack diagrams with lists (+ Handout 3)
- shuffle.py program if you have time

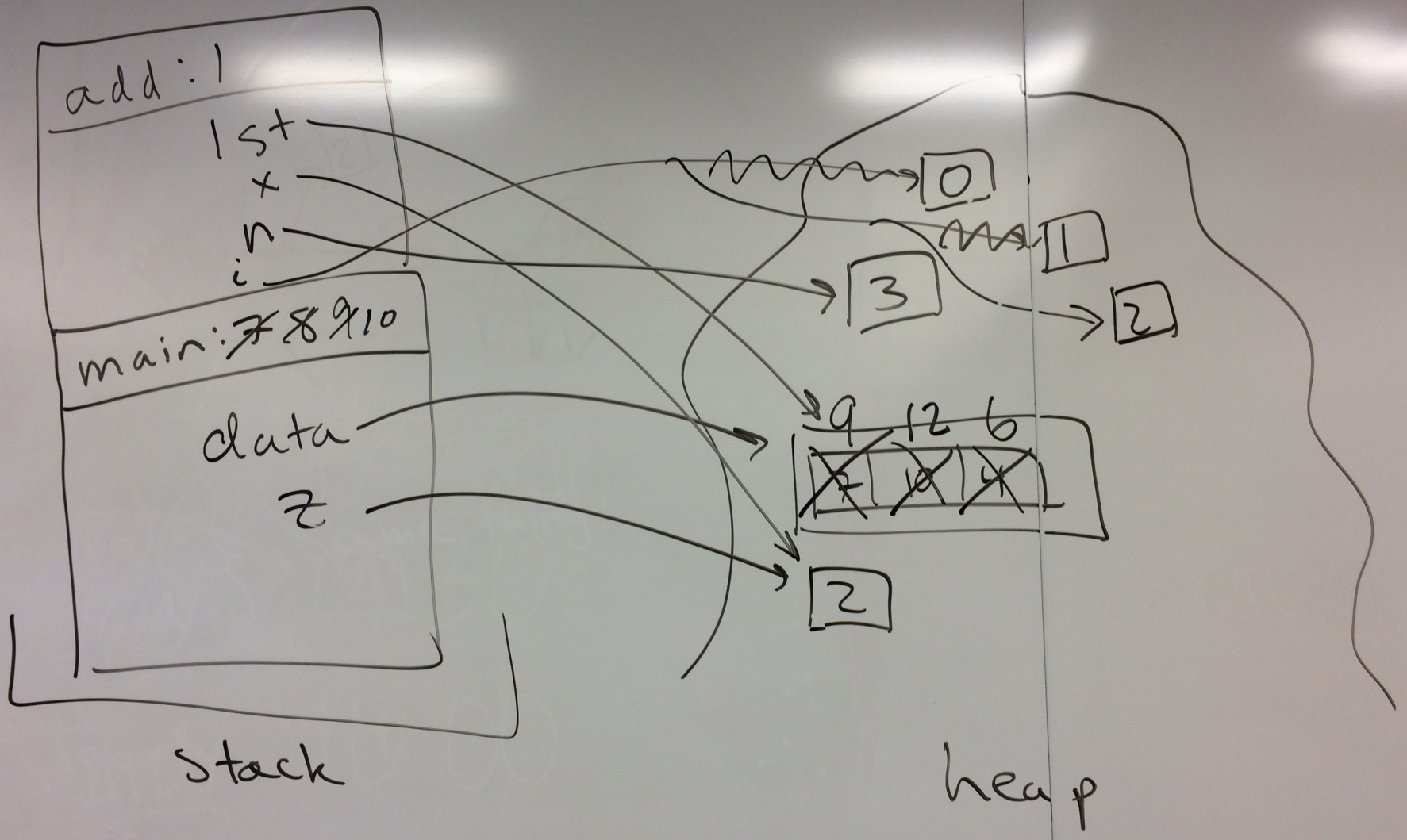
Notes

- **Ninja session TONIGHT** in this room! 7-9pm
- **Lab 4** due **Saturday** night
- Office Hours **3-5pm TODAY**

Stack Diagrams (Handout 3)

```
1  def add(lst, x):
2      n = len(lst)
3      for i in range(n):
4          lst[i] = lst[i] + x
5      print("done adding!")
6
7  def main():
8      data = [7, 10, 4]
9      z = 2
10     add(data, z)
11     print(data)
12
13 main()
```

Handout 3



Note: it would also be fine (and perhaps more correct) to make separate 2-box for x. This way is okay though as long as we keep in mind that if x changed, it would get a new box - the change would not affect z.

Handout 3