CSE 8A: Intro to Programming in Python
Fall 2021

Lecture 7 - Get started with Coding

UC San Diego

Announcement

- Expect PA 1 to be released soon. You have 7 days after grade release to makeup at most 50% of the lost autograded pts in your PA.

- Imporant policy change: DROP 3 LABS instead of one

Topics for Today

- Get started with coding

Coding Habits

- This class will likely be a transition point for many of you.

- Good habits can *seriously* change your outcome in this class and will have a major impact in later classes.

- All kinds of students need better habits.
  - In fact, the most clever among you may have the worst habits

- How do you know if you have good habits?
  - Rule of thumb:
    - ~90% of your time is spent designing algorithms/ coding/ testing
    - ~10% is spent on debugging

Case Study

```
def sum2 (numList):
```

Given a list of ints, return the sum of the first 2 elements in the list. If the list length is less than 2, just sum up the elements that exist, returning NoneType if the list is length 0.

Step 1: Test Cases

```
def sum2 (numList):
```

Step 2: Design on paper

```
def sum2 (numList):
```

Step 3: Test on paper / Add cases

Step 4: write in code and debugging

- Be careful with syntax

- Test your code with at least the same testing cases on paper
  - Test your code thoroughly

Let's try it yourself!

Complete the cse8a_string function on ed

Functions useful in string processing

Strings in Python has some very useful functionality baked in.

- better know them to save time!
- index
- strip
- split
- lower
- upper

https://docs.python.org/3/library/stdtypes.html#str