CSC120

October 6th, 2017
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Administrative Reminders

• Lab 4 due this Friday
• Note: no exercise due this week. You’ll have one due next week.

• Also: Midterm will take place on Wednesday, October 25th, 1-2pm
  • this is our regular lecture timeslot
  • Locations will be posted later this month.
  • I will be posting past midterm questions + advice on how to study in the next week.
Imagine a scenario where you have a pile of forms on your desk and you want to write instructions asking a friend to fill them in for you.

In **Option A**, you write:

- For every form that is on my desk, starting from the first one, please fill it in, and continue to the next one.

In **Option B**:

- You first go and count the # forms currently on your desk. Let’s assume there are 7.
- Then you write:
  - Please fill in the 1\textsuperscript{st} form on my desk.
  - Then fill in the 2\textsuperscript{nd} form on my desk.
  - Then fill in the 3\textsuperscript{rd} form on my desk.
  - Then fill in the 4\textsuperscript{th} form on my desk.
  - Then fill in the 5\textsuperscript{th} form on my desk.
  - Then fill in the 6\textsuperscript{th} form on my desk.
  - Then fill in the 7\textsuperscript{th} form on my desk.
Follow-up Questions

• If you were to ask your friend to do the same another time, when the # forms on your desk might be different, the instructions of which option would you need to modify?
  • Option B 😞

• Option A is a **for loop 😊**
For loop over string

```python
for char in s:
    # do something with char
```

• For loop says:
  • for every char of the string, do something (some processing)

• s is of type `str`.
• char will also be of type `str`.
  • In every iteration, char will refer to one character of string s.
• Note: char and s are just variable names. Could be named anything!

• How many times will the body of this loop execute?
  • As many times as len(s)