More Strings, Lists and Loops

October 6, 2021

Administrative Notes

Test next Wednesday, October 13

- In class; in the classroom; closed book
- 75 points
- Bring a pen or pencil (pencil's probably better)
- If you have accommodations from the University, I will make arrangements through SDS

Next Monday is a review session

- We will go over the sample exam
- And answer any other questions you have

Reversing a list: several ways to do it

```
state_list = ["Washington","Oregon","California", "Arizona",

              "Nevada", "Idaho","Montana", "Wyoming", "Utah",

              "Colorado"]
```

(1) While loop; start from front; insert each state at index 0;
(2) While loop; start from end; append each state at end of reversed_list
(3) For each loop; start from front; insert each state at index 0
(4) ….

Reversing strings

Step 1: convert the string to a list

a.   Using "list()"
b.   Appending/inserting character by character into a list

Step 2: reverse the list

-   Using any of the previous methods

Step 3: join the list back into a string

String slicing

We can take parts of a string

- How do we make a new string out of them?
- Directly, with string slicing
    - Works if we want the characters that occur in a row?
    - But what if we want every other character to discover the super-secret message buried in the string?
- Append/insert character by character into a list
    - Join the list back into a string
    - Always works