## Lecture 10 Announcements

- Prelim 1
- Date: Tuesday, March 14th, 7:30 pm to 9:00 pm
- Submit conflicts immediately through CMS
- A2: You must scan or take a picture of your work to submit it through CMS
- Since you have been warned to submit early, do not expect that we will accept work that does not make it onto CMS on time.


| Lists vs. Class Objects |  |
| :---: | :---: |
| List | Objects |
| - Attributes are indexed <br> - Example: x[2] $\square$ <br> id2 list | - Attributes are named <br> - Example: c.x <br> c $\square$ id3 |

## List Assignment

- Format:
- $x=[5,7,4,-2]$
<var>[<index>] = <value>
- Reassign at index

| 1 | 1 | 2 | 3 |
| :---: | :---: | :---: | :---: |
| 5 | $X$ | 4 | -2 |
| 8 |  |  |  |

- Affects folder contents
- $x[1]=8$
- Variable is unchanged
- Strings cannot do this
- s = 'Hello World!'

- $\mathrm{s}[0]=$ ' J' ERROR
- String are immutable



## Lists and Functions: Swap



## List Slices Make Copies

| $x=[5,6,5,9]$ | $y=x[1: 3]$ |
| :---: | :---: |
| $\times$ id5 | y id6 |
| id5 ${ }^{\text {list }}$ | id6 |
| 05 | 06 |
| $1{ }^{1}$ | 15 |
| 25 |  |
| 39 | copy $=$ new folder |

