

Python Basics!

mutability, container methods

CS101 Lecture #9

Administrivia

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- ✦ Homework #4 is due Friday Sep. 23.
- ✦ Midterm #1 will be Monday Oct. 3. (evening)

Warmup Quiz

Question #1

```
s = 'ABcd'
if not s[0:2].isupper():
    if s[0] == s[2]:
        print( s[0] )
    else:
        print( s[1] )
else:
    if s[1] != s[2]:
        print( s[-1] )
    else:
        print( s[-2] )
```

Question #2

```
s = 'abcd'
if not s.isalpha():
    print( s[0] )
elif s.isupper():
    print( s[-1] )
elif 'ab' in s:
    print( s[-2] )
else:
    print( s[1] )
```

Mutability & Aliasing

Mutability

- ❖ We distinguished mutability and immutability.
- ❖ The distinction arises from the storage in memory.

```
x = [ 1, 2, 3, 4 ]  
y = x
```

