



CSCI 141

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String Manipulation - Strings as Sequences

Goals

- Review what we know already about strings:
 - the `str` type, `+` and `*` operators, `len` function
- Know how to iterate over tuples and strings using `for` loops

Previously: tuples

- A tuple is a sequence of values, optionally enclosed in parens.


(of any types!)

```
(1, 4, "Mufasa")
```

- You can “pack” and “unpack” them using assignment statements:

```
v = (1, 4, "Mufasa") # "packing"
```

```
(a, b, c) = v # "unpacking"
```

fun fact:

Tuples are sequences,

so they can be used in `for` loops just like lists and ranges.

These two loops do the same thing:

```
for number in [1, 3]:  
    print(number, end=" ")
```

```
for number in (1, 3):  
    print(number, end=" ")
```

Strings

What do we already know about Strings?

```
type( "hello" )
```

```
print( "Hello" )
```

```
"Hello" + "World"
```

```
len( "abc" )
```

```
"na" * 16 + " Batman!"
```

```
"abc" == "abd"
```

Strings: What else is there?

```
def house_number(address_line):  
    """ Return the house number portion of  
    the given address line.  
    Examples:  
        house_number("1600 Pennsylvania Ave")  
            => 1600  
        house_number("221B Baker St")  
            => 221  
    """  
    # ????  
    return result
```

Strings: What else is there?

```
def remove_comments(string):  
    """ Return a copy of string, but with  
        all characters starting with and following  
        the first instance of '#' removed. If there  
        is no # in the string, return input unchanged.  
    """  
    # ????  
    return result
```

fun fact:

Strings are sequences,

so they can be used in for loops just like lists, ranges, and tuples.

Check this out:

```
for letter in "Bellingham":  
    print(letter, "-", sep="", end="")
```

fun fact:

Strings are sequences,

so they can be used in for loops just like lists, ranges, and tuples.

Check this out:

```
for letter in "Bellingham":  
    print(letter, "-", sep="", end="")
```

Demo