

Outline for October 6, 2021

Reading: §6.1–6.8

Assignments: Homework 1, due October 6, 2021

1. Sequences
 - (a) Sequences are a series of values in a particular order
 - (b) In Python predominantly strings and lists but also sets and tuples
2. Strings
 - (a) Sequence of characters (characters are strings of length 1)
 - (b) Strings are immutable; really important for functions
3. Basic string operations
 - (a) `+`, concatenation for strings
 - (b) `*`, repetition repeats given value
 - (c) `len()` returns length of sequence
 - (d) `s in str` returns True if `s` is a substring of `str`, False otherwise
4. Indexing, `var[position]`
 - (a) Count from 0 to `len(var) - 1`
 - (b) Position can be a negative number to count from right
5. Assignment with indexing doesn't work as strings immutable
`x = 'hEllo'; x[1] = 'e'` produces an error
6. Slicing, `var[start:end]`
 - (a) Value at index end not included in slice
 - (b) If omitted, starting value defaults to 0 and ending value defaults to last index + 1
 - (c) Can use negative index
7. Looping over strings: `for i in str`
8. Example program [*strstuff.py*]