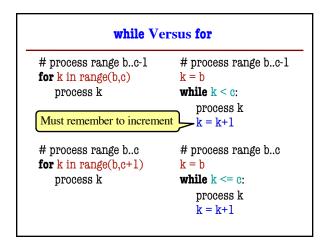
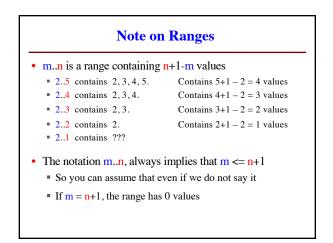
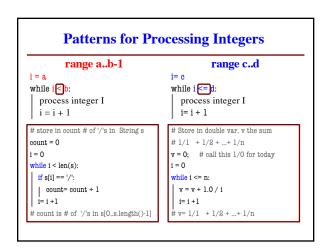
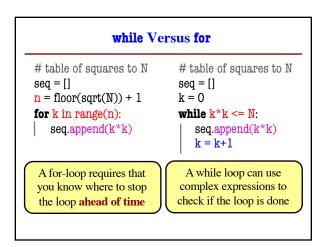


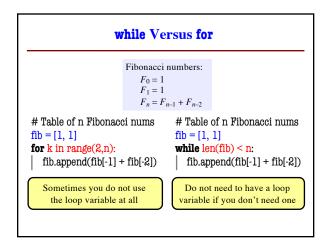
While-Loops and Flow	
print 'Before while'	Output:
ount = 0	Before while
i = 0 while i < 3:	Start loop O
	End loop
print 'Start loop '+str(i)	Start loop 1
count = count + i	End loop
i = i + 1	Start loop 2
print 'End loop '	End loop
print 'After while'	After while

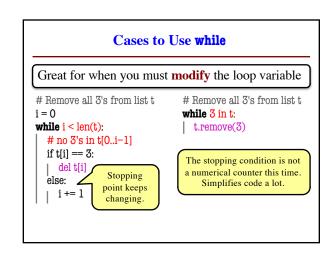


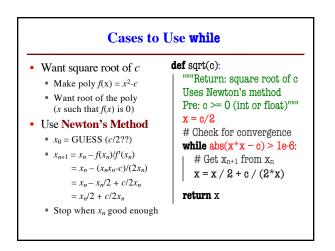


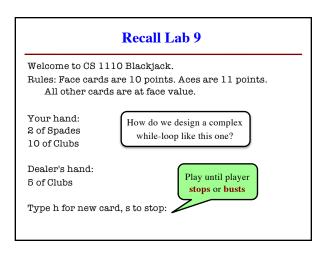














- assertion: true-false statement placed in a program to *assert* that it is true at that point
 Can either be a comment, or an assert command
- invariant: assertion supposed to "always" be true
 If temporarily invalidated, must make it true again
 - Example: class invariants and class methods
- **loop invariant**: assertion supposed to be true before and after each iteration of the loop
- iteration of a loop: one execution of its body

