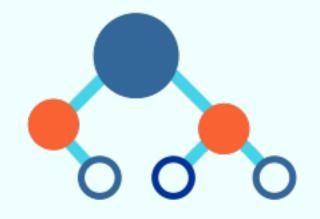
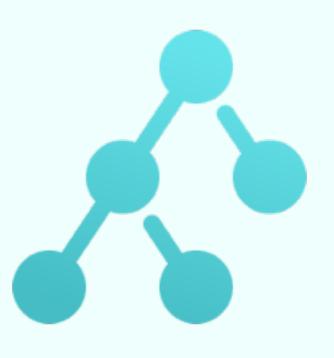


Exercise Session





Marco Vassena



Exercise 1 from 12/08

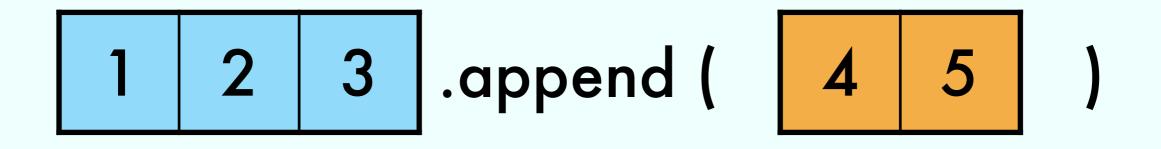
Analyze the time complexity

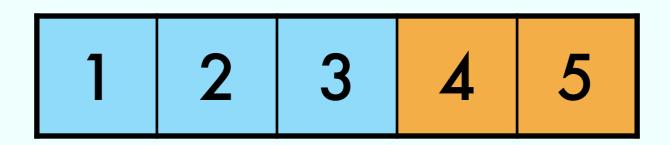
in terms of M, N and |stack|

Exercise 3 from 12/04

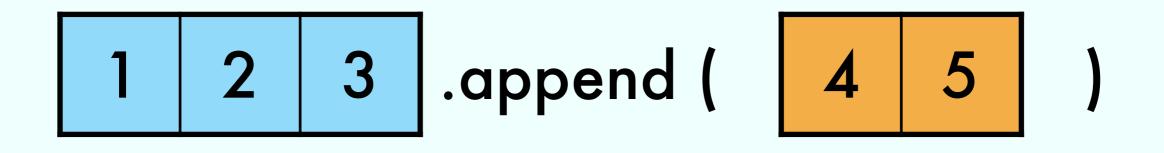


Exercise 3 from 12/04



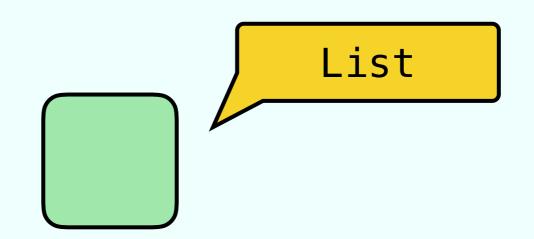


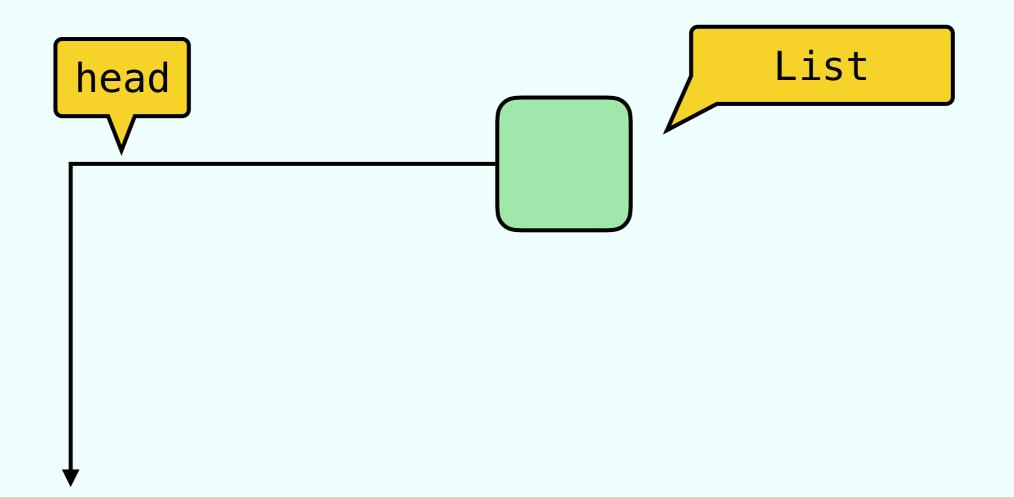
Exercise 3 from 12/04

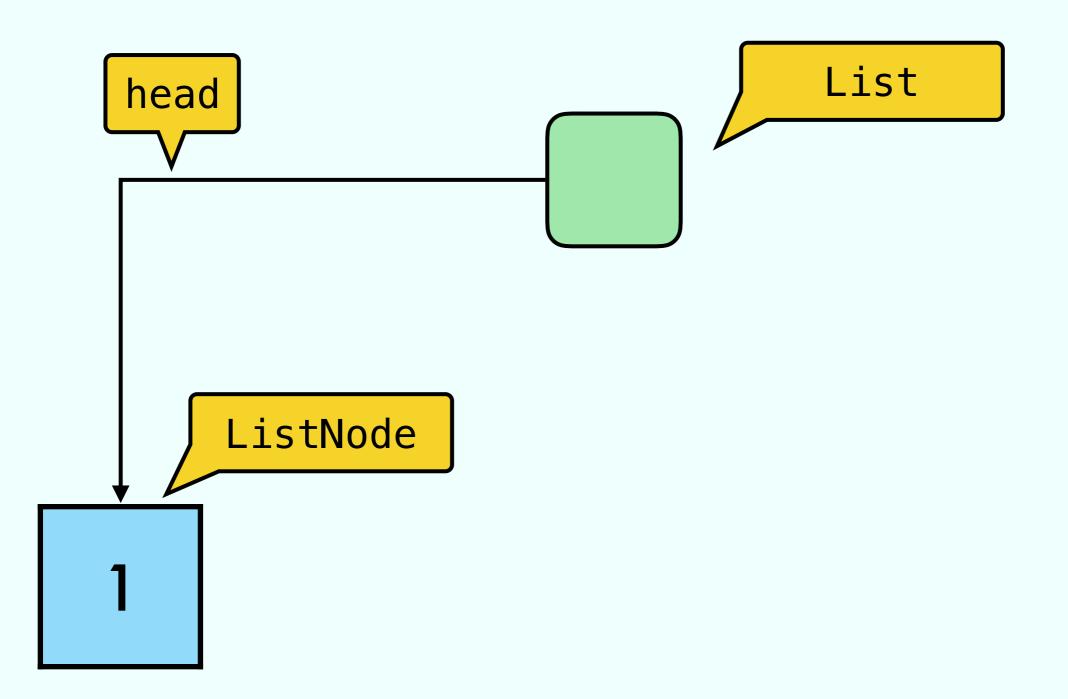


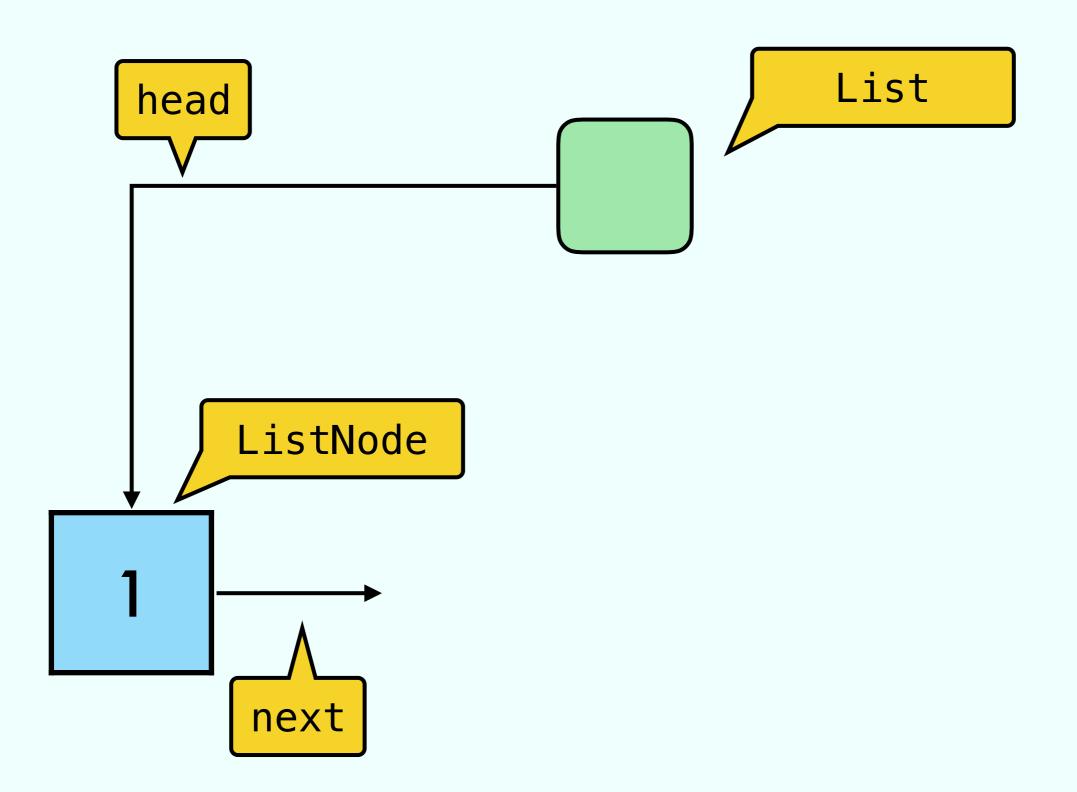
1 2 3 4 5

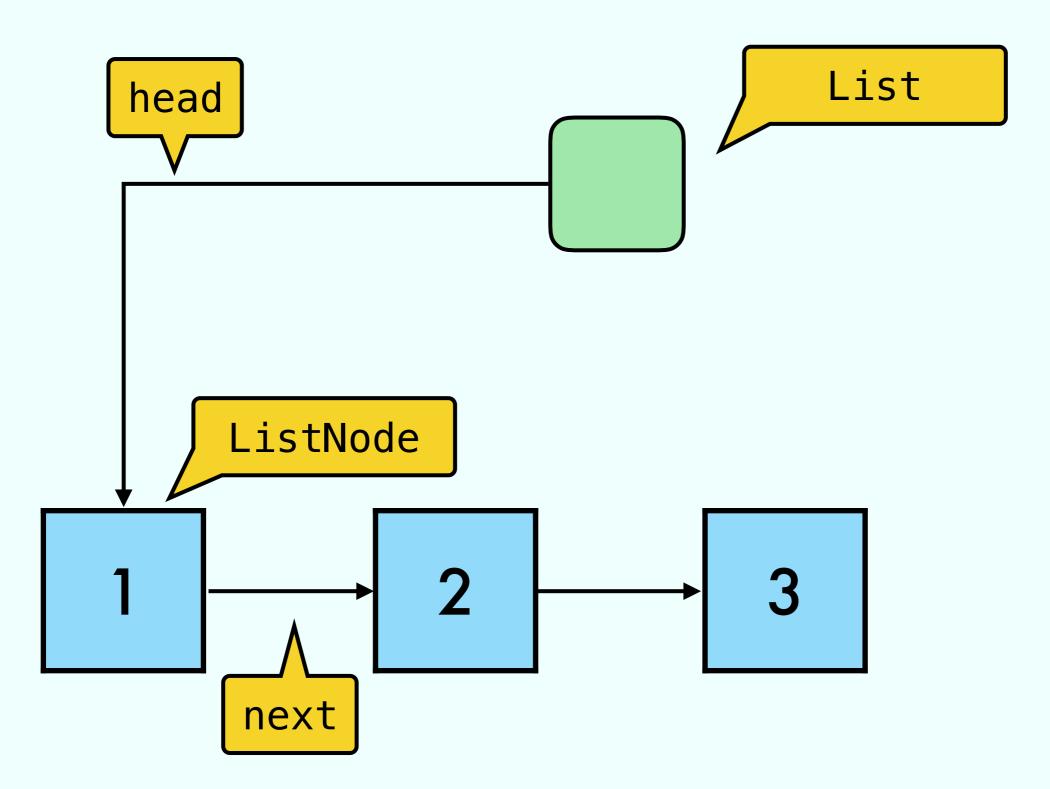


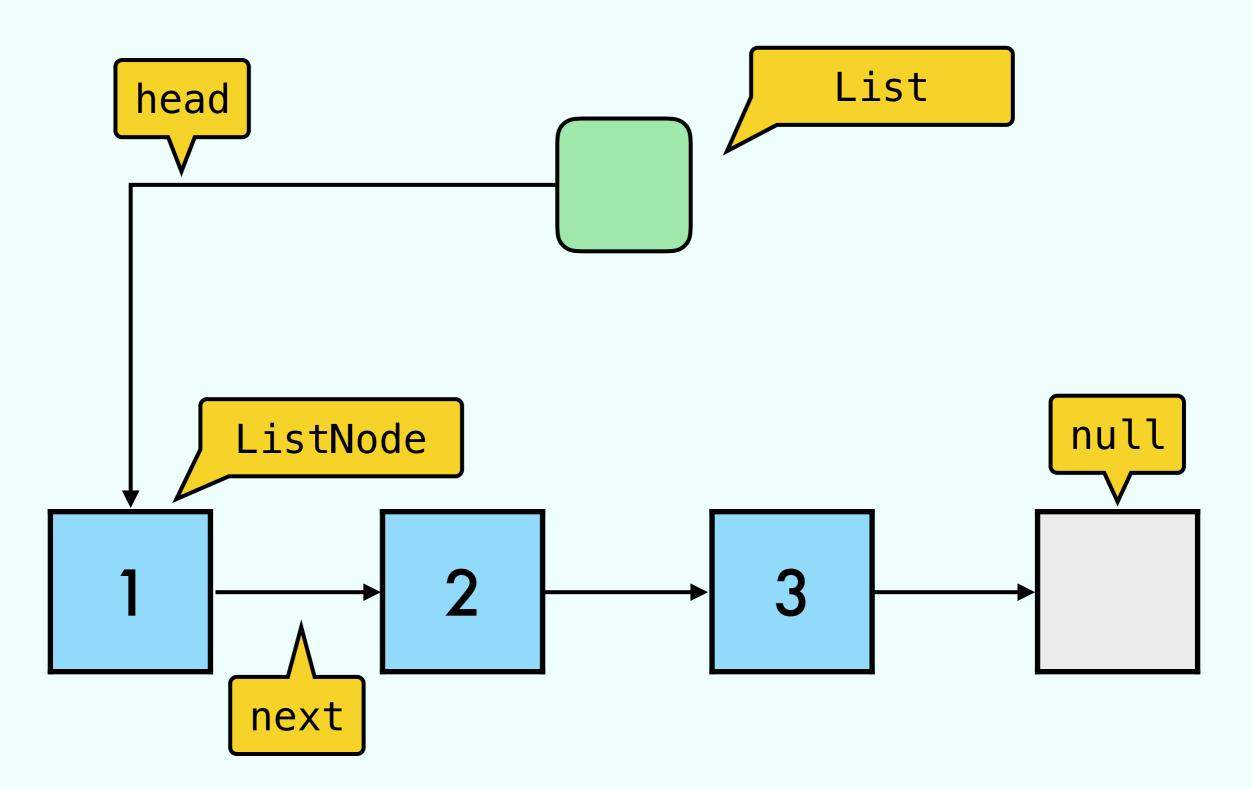


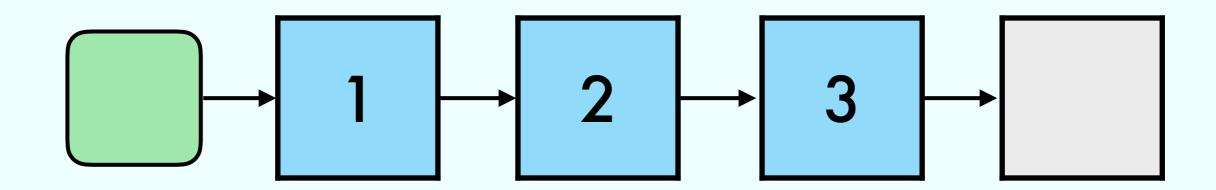


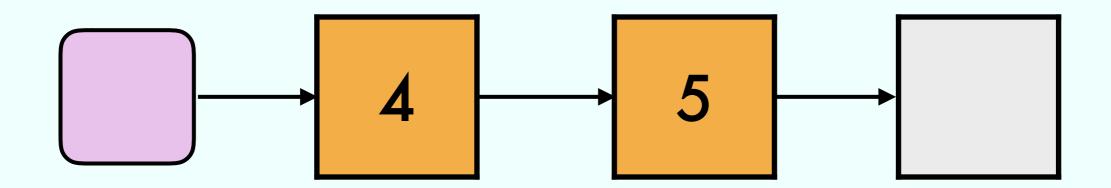


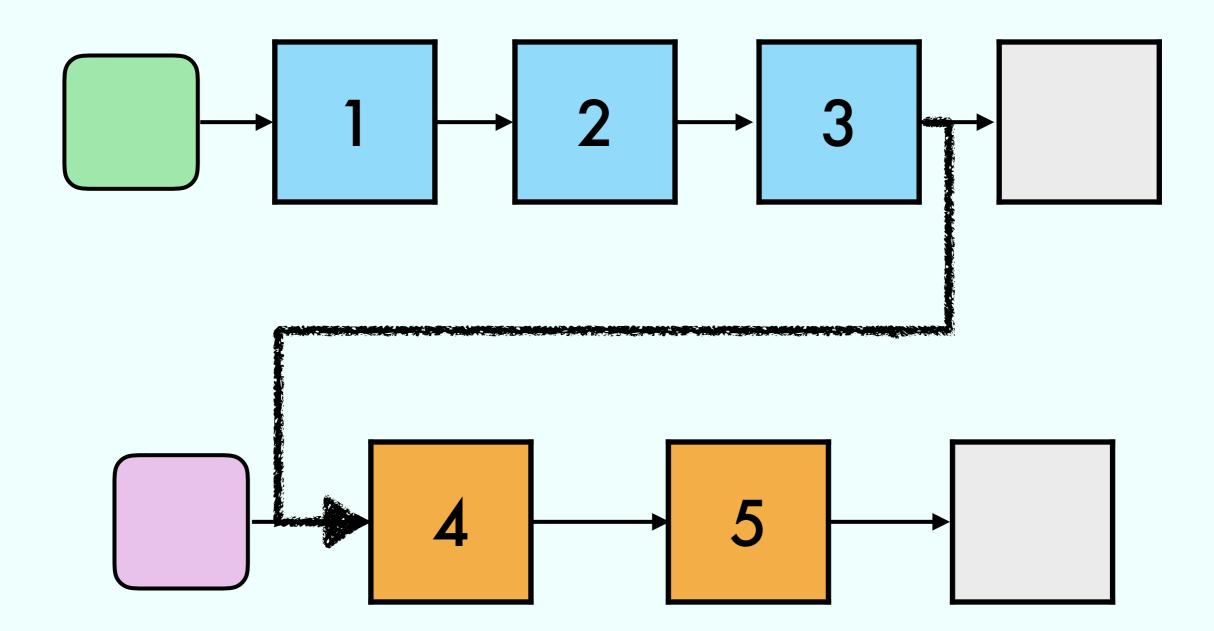


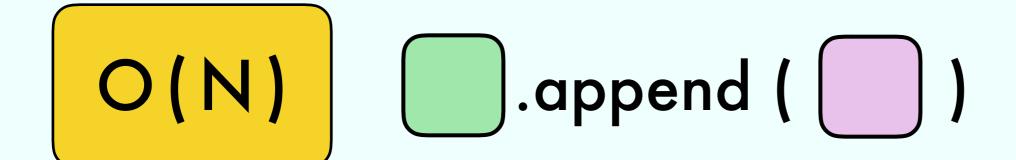


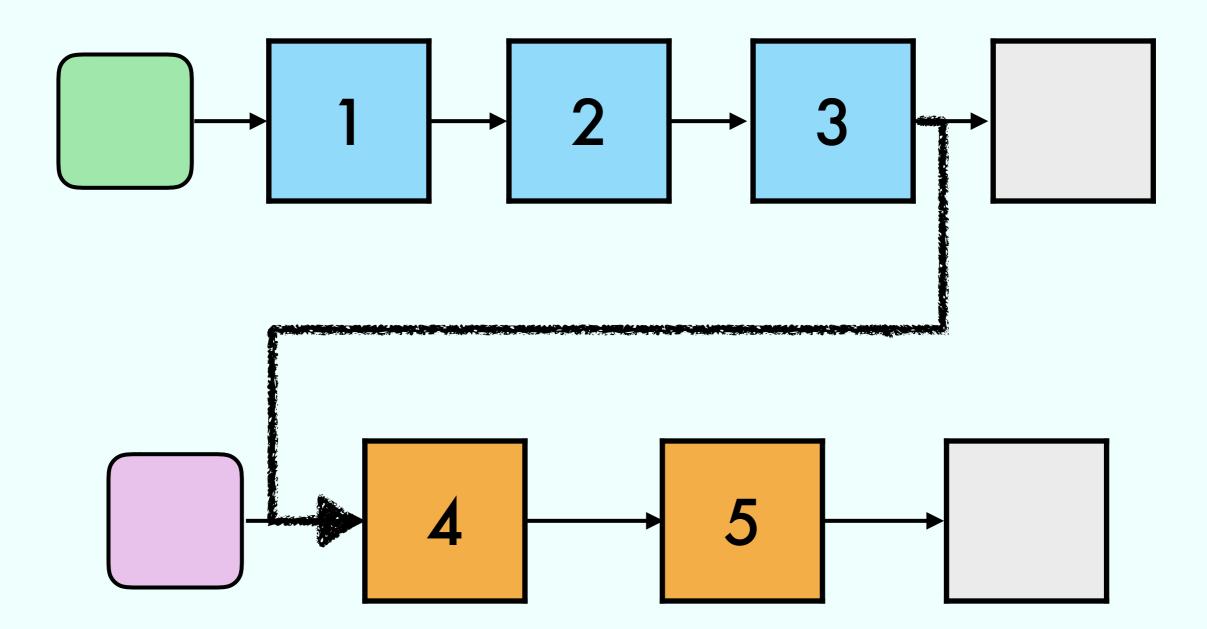




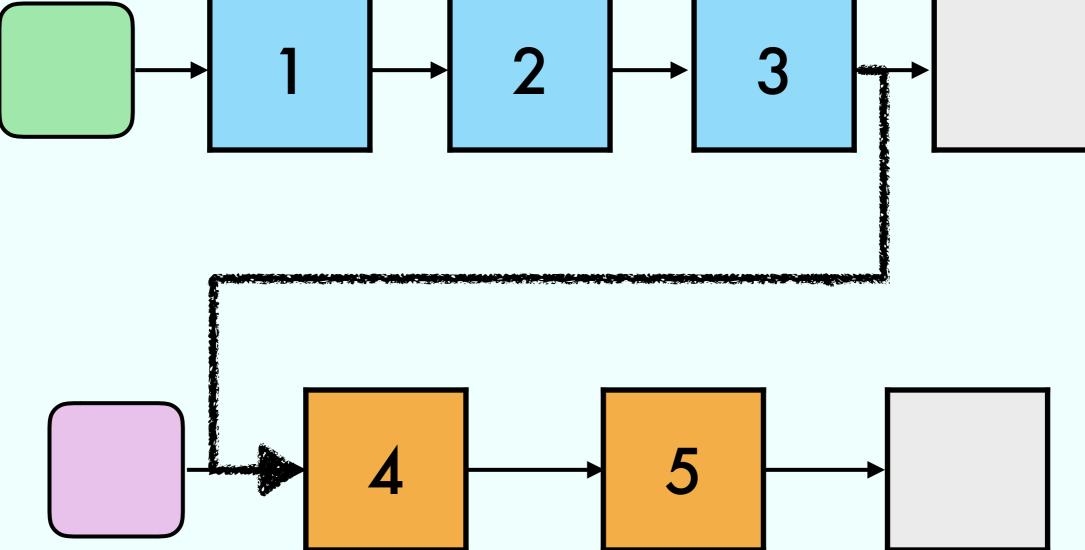




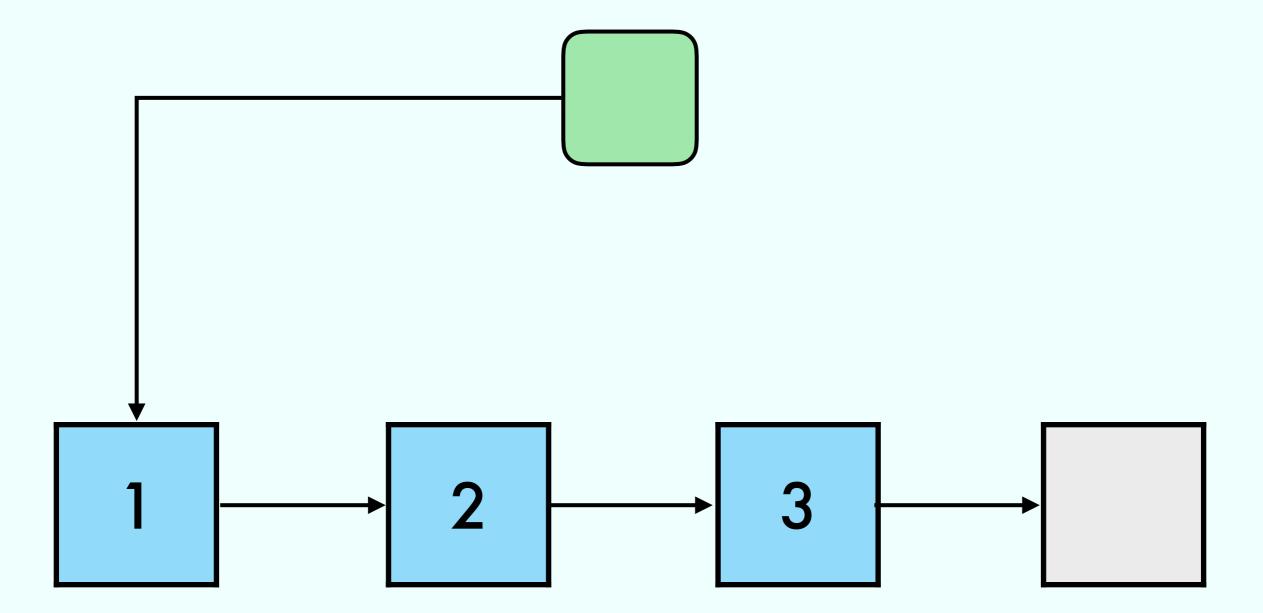




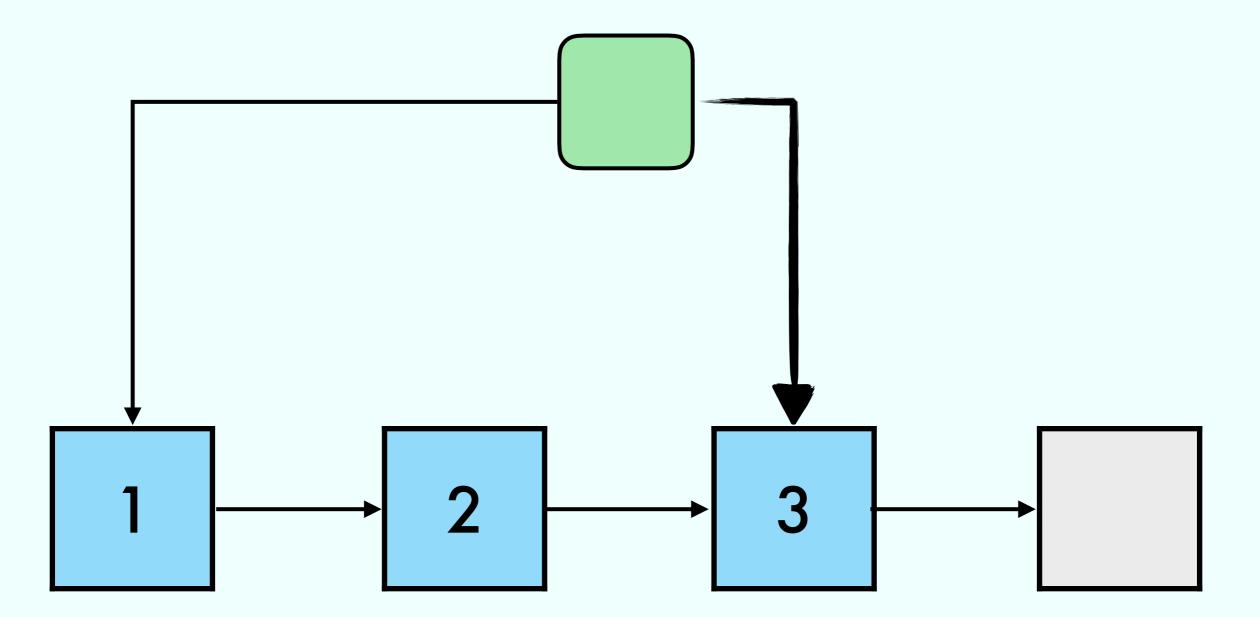




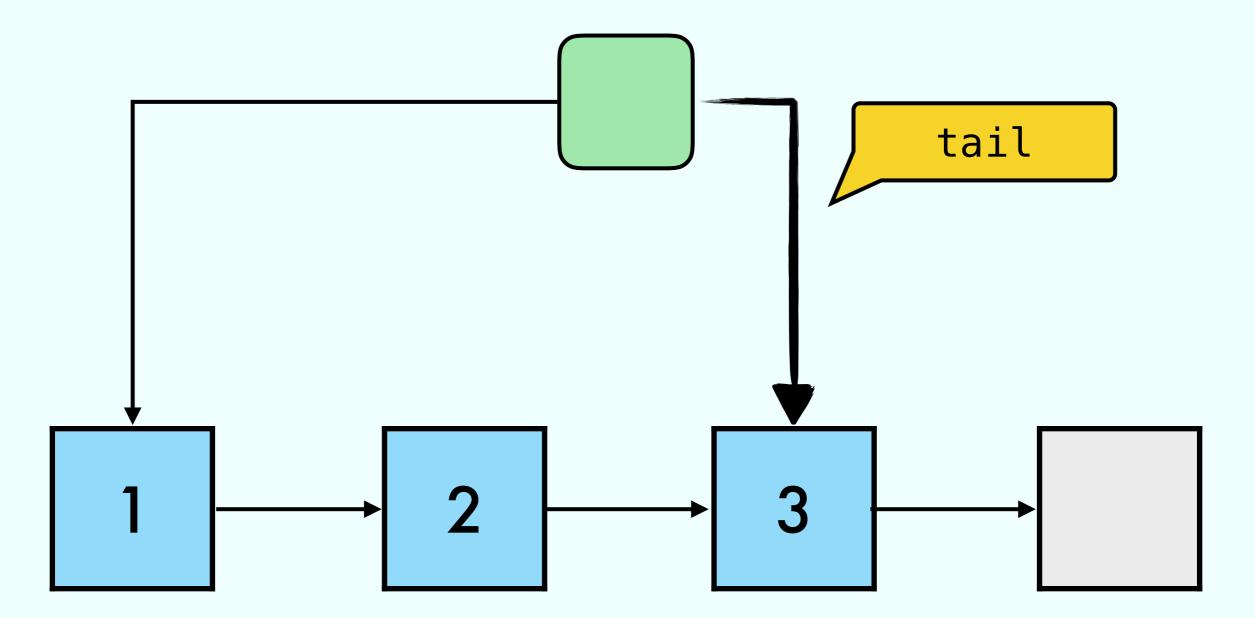
Linked List with pointer to last



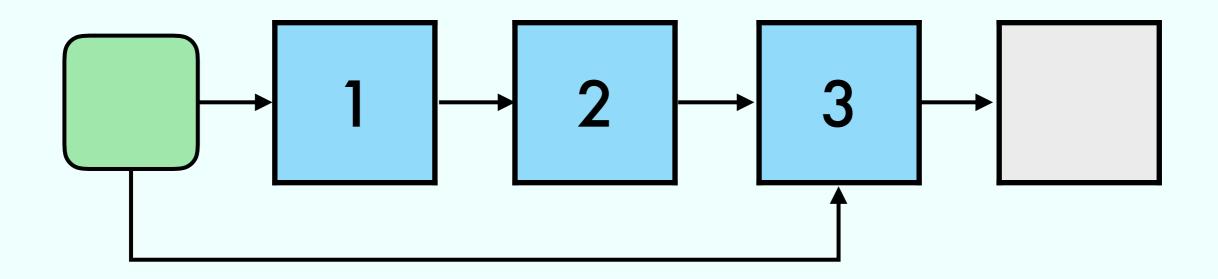
Linked List with pointer to last

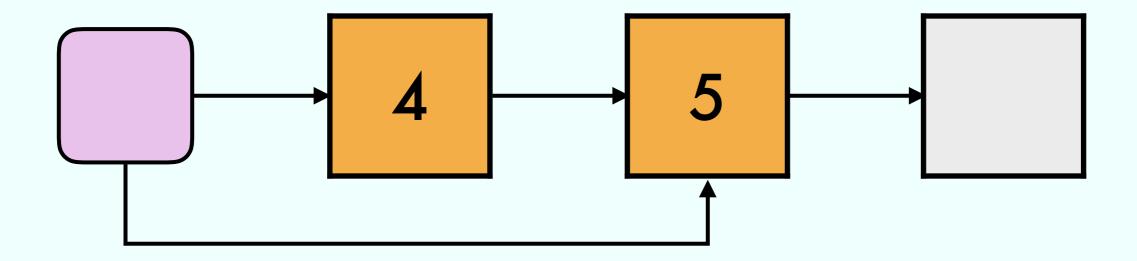


Linked List with pointer to last

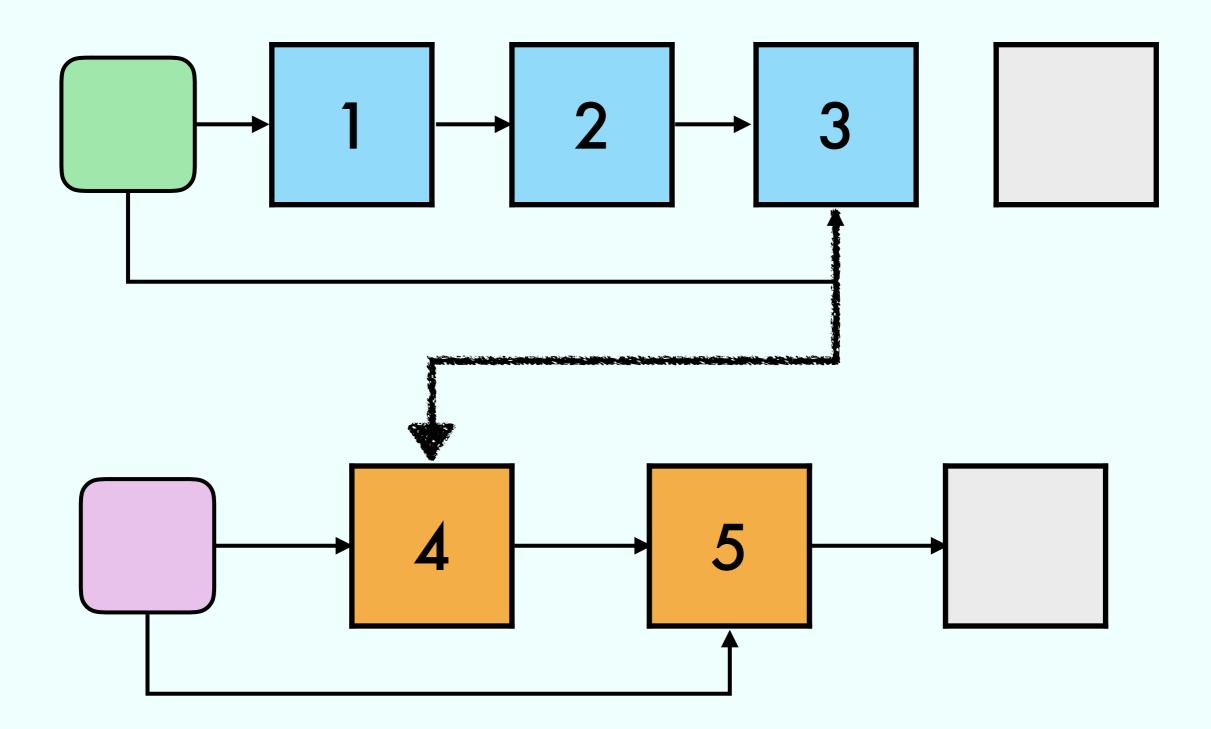




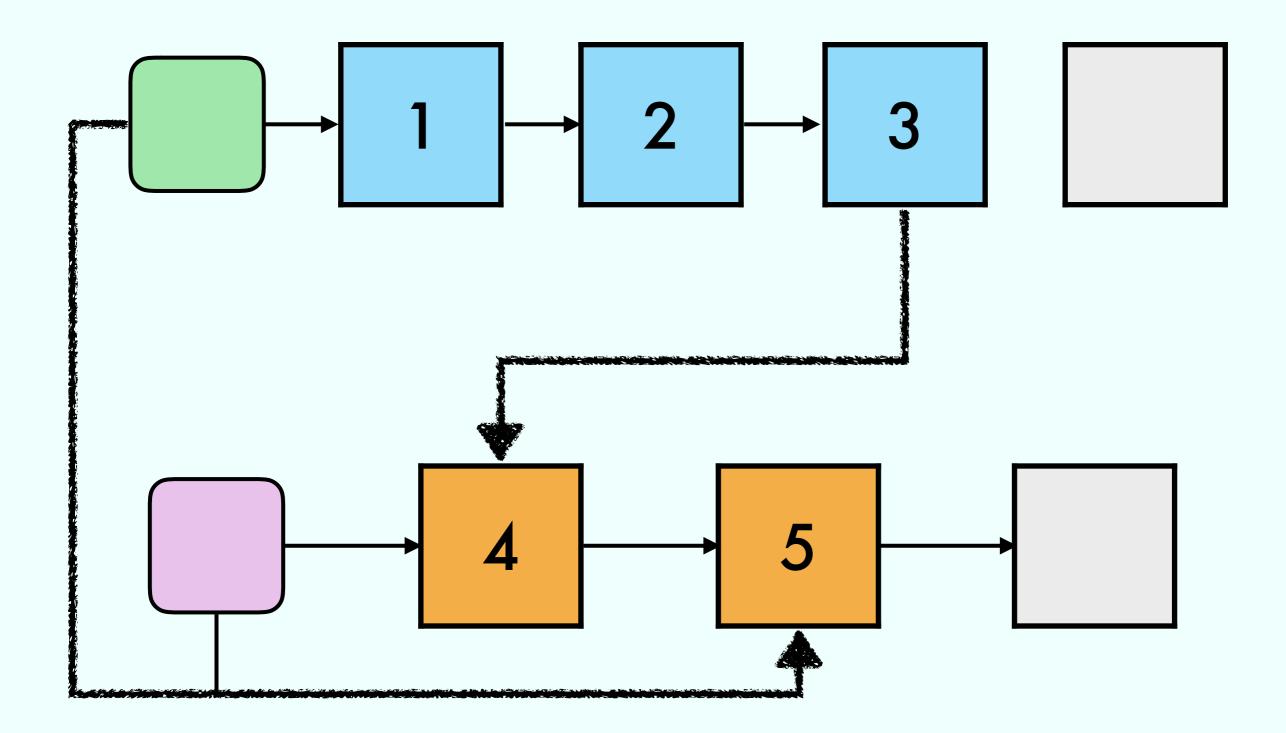


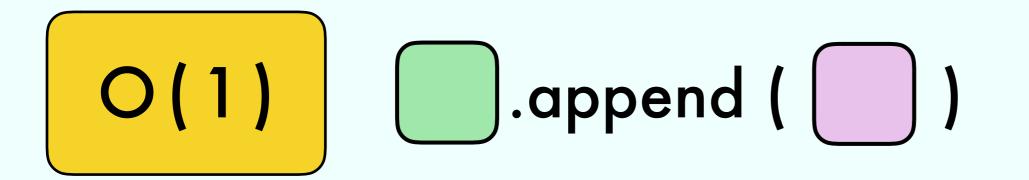


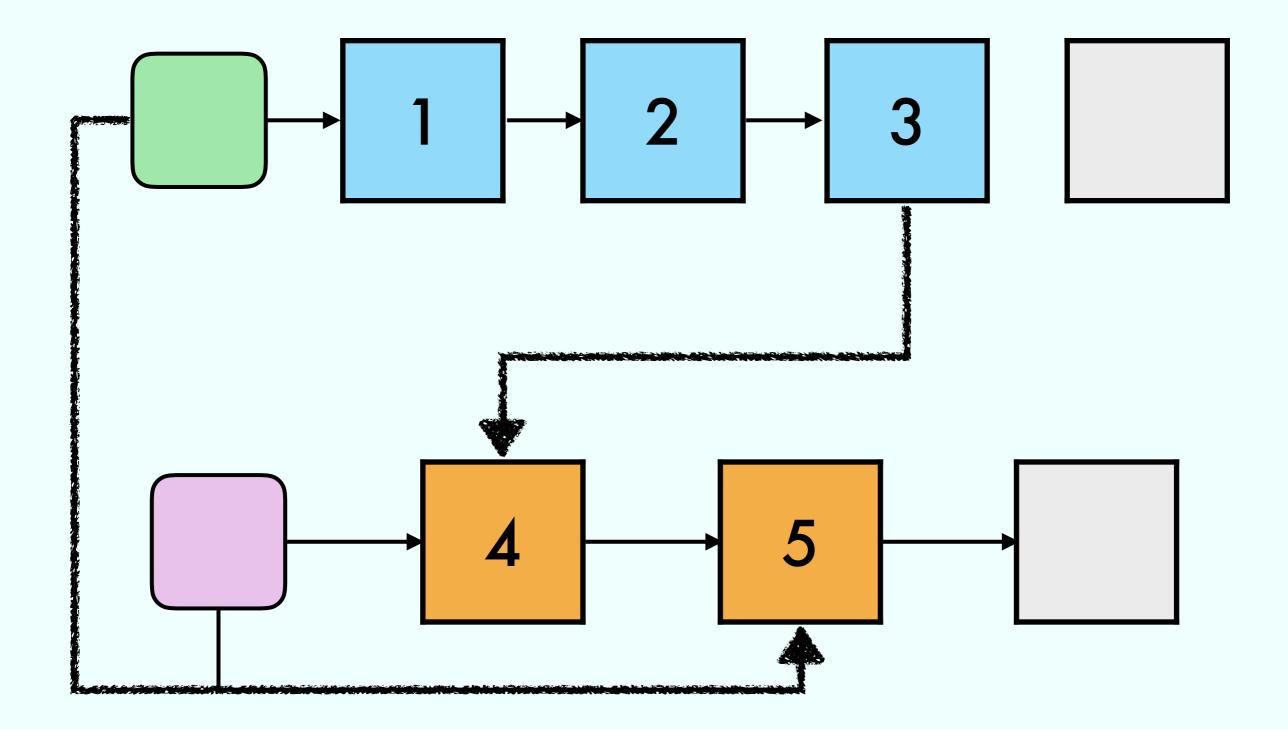


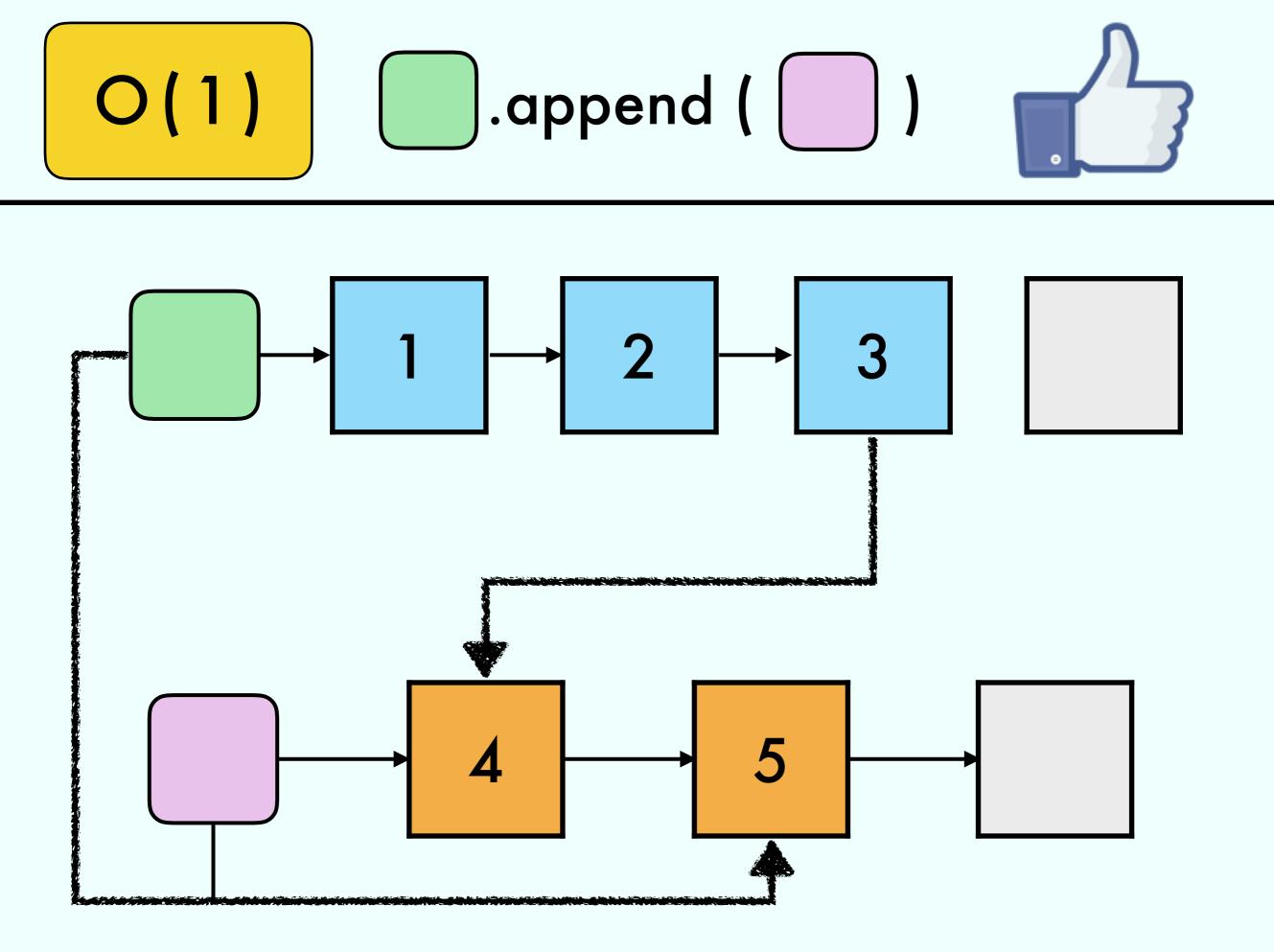


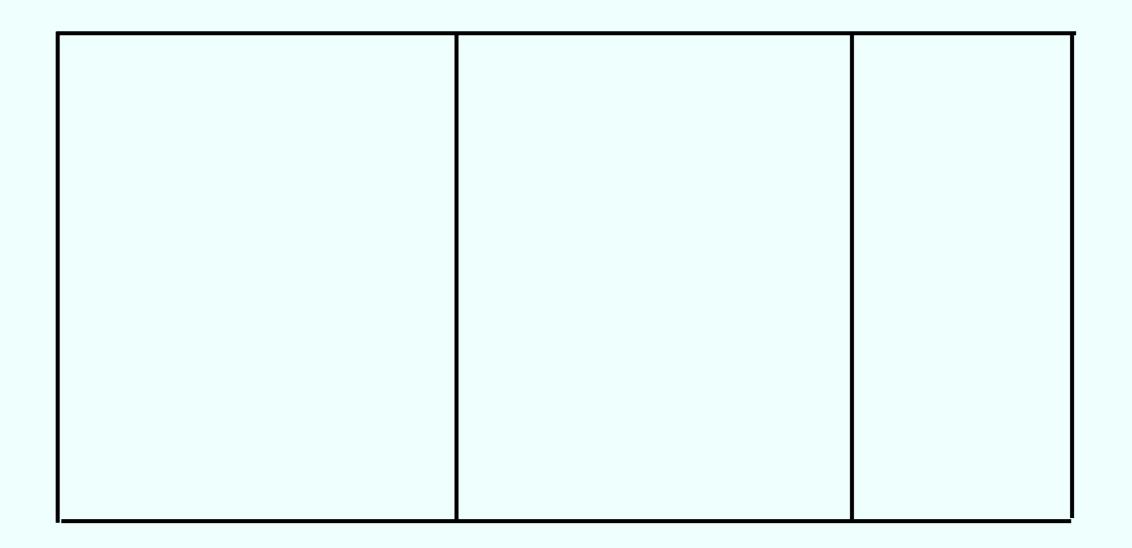






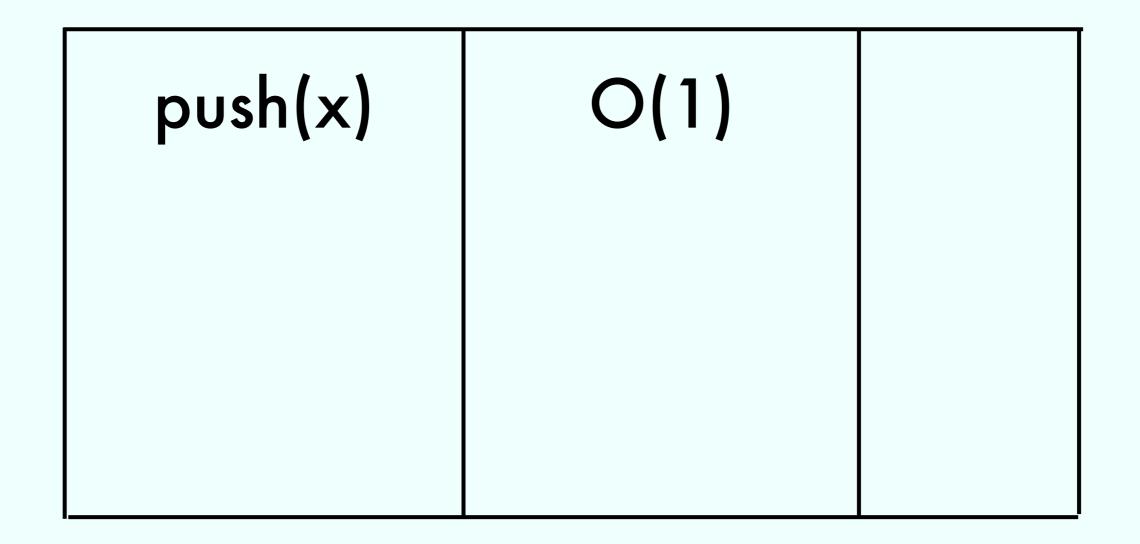


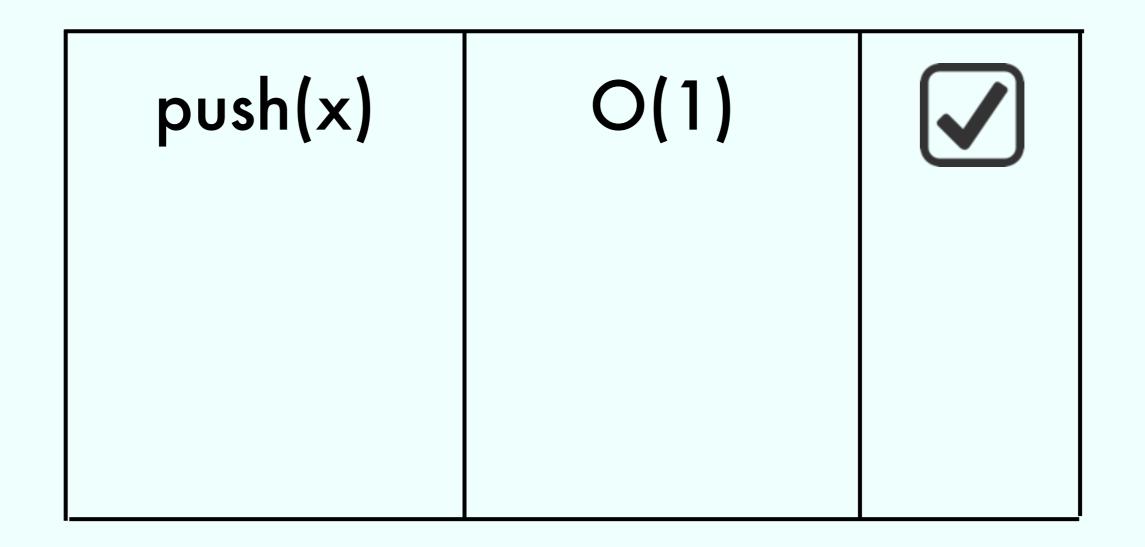


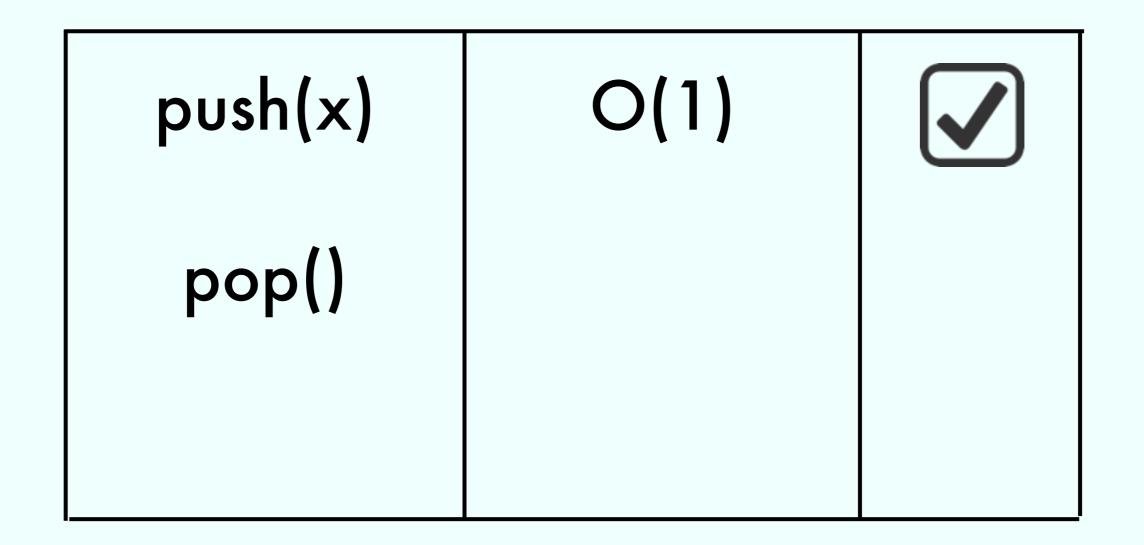


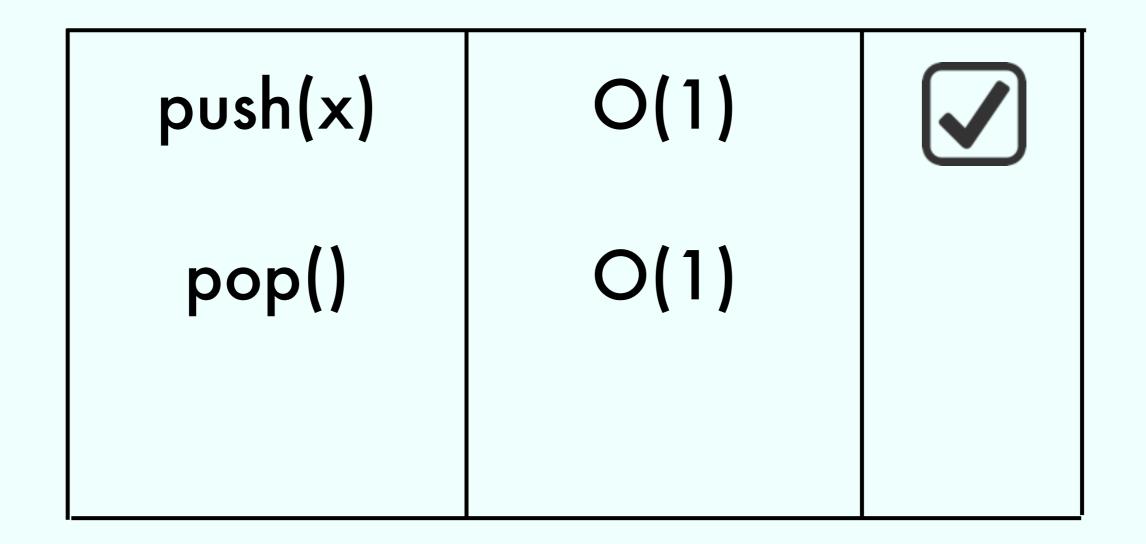
Stack:

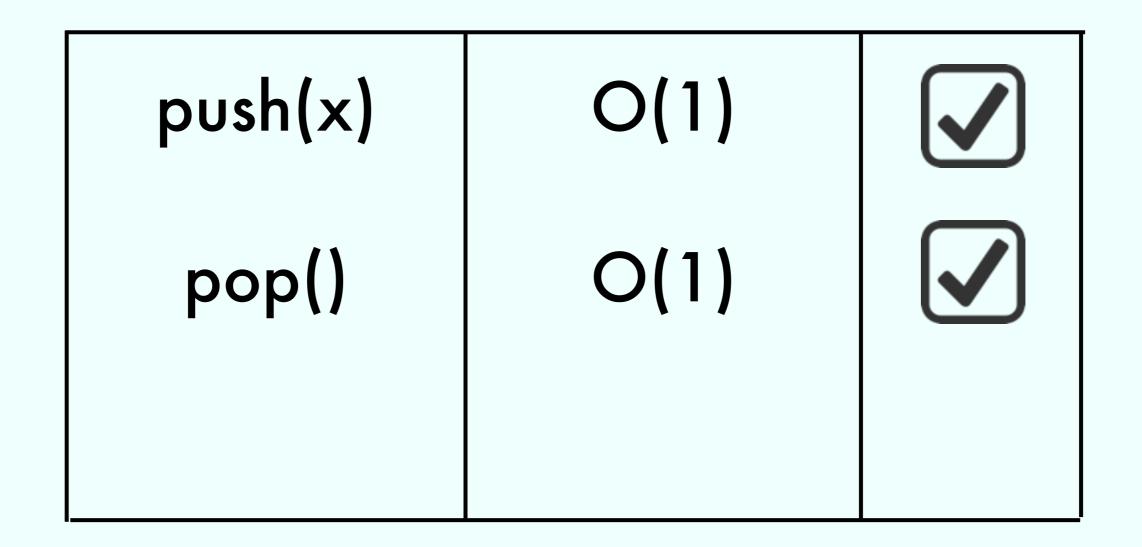
push(x)

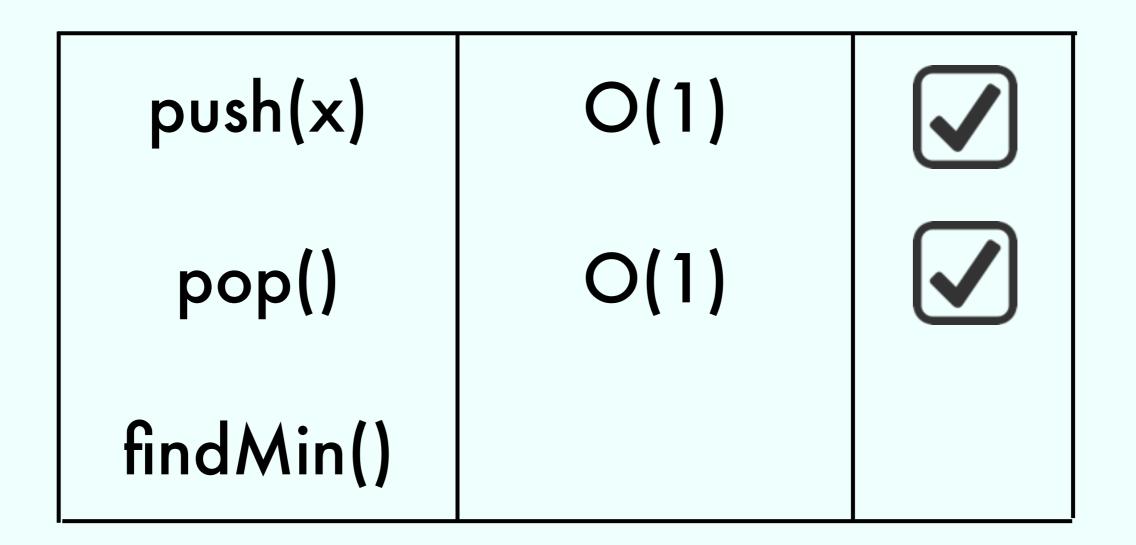


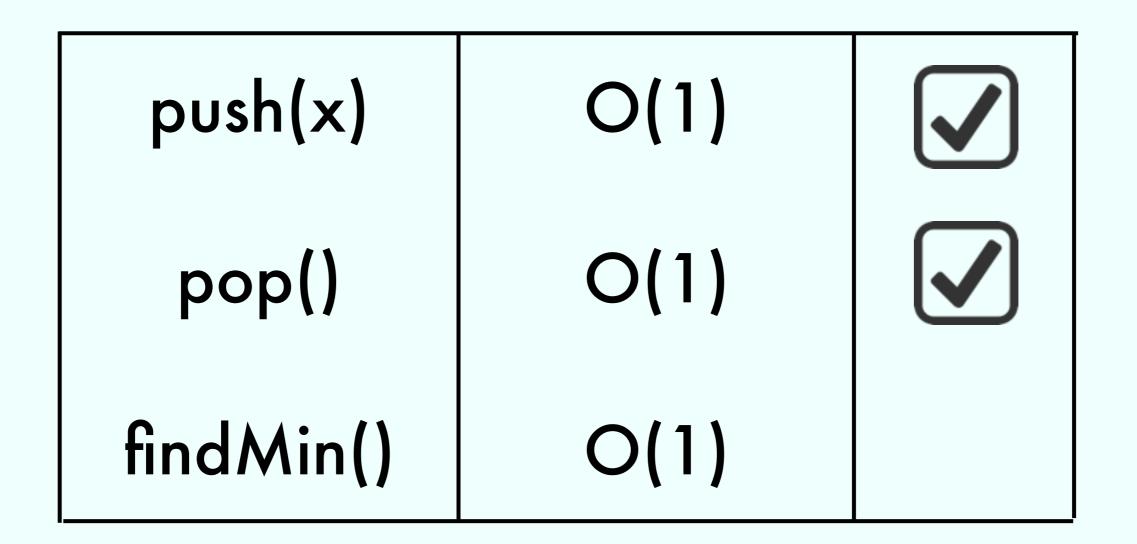


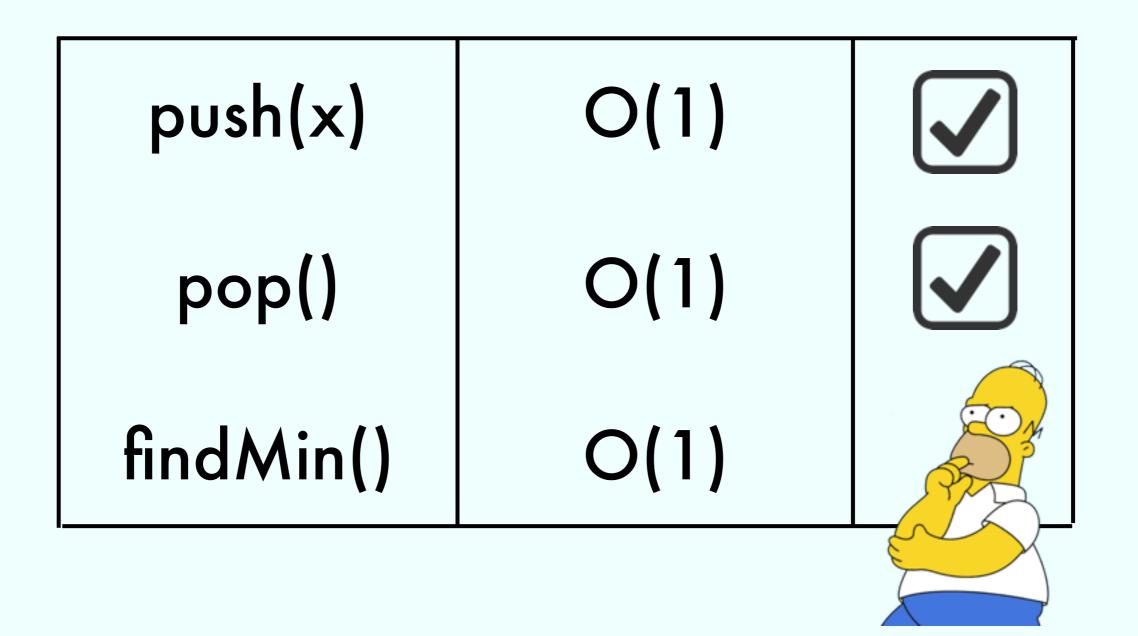














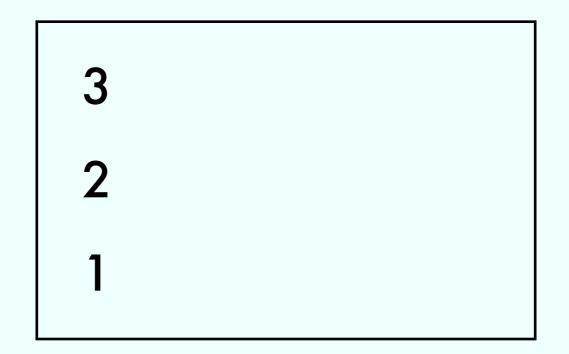
Print a singly linked list in reverse in constant space:

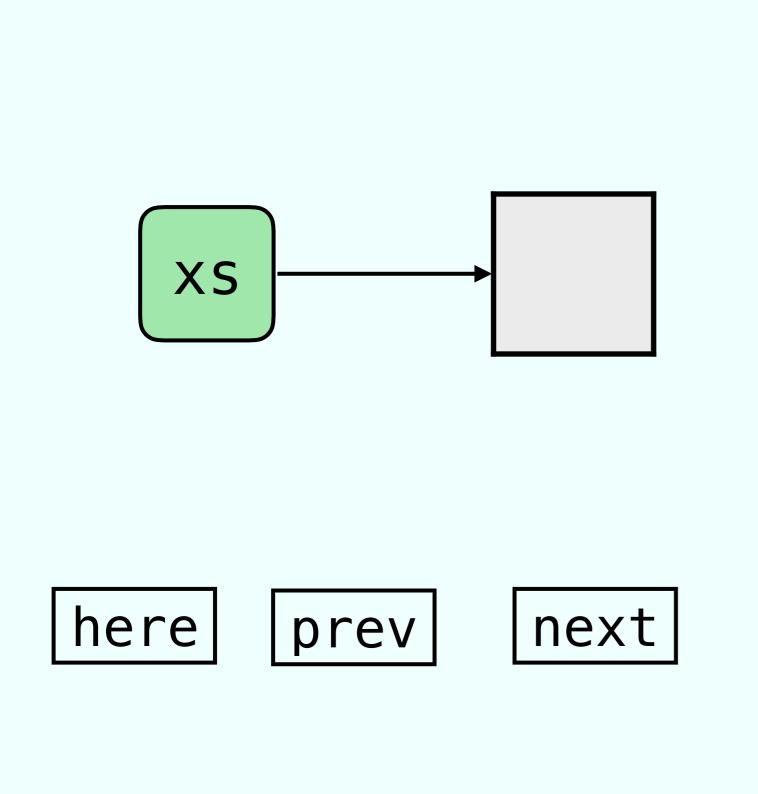


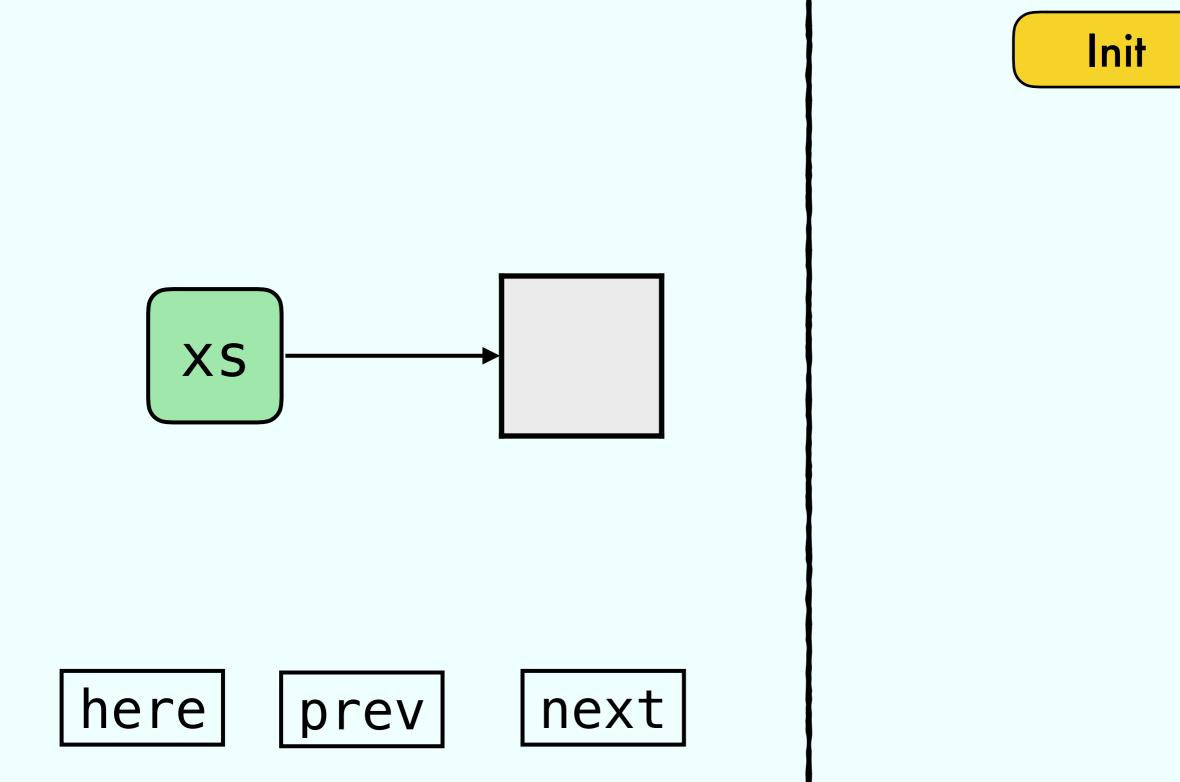
Print a singly linked list in reverse in constant space:

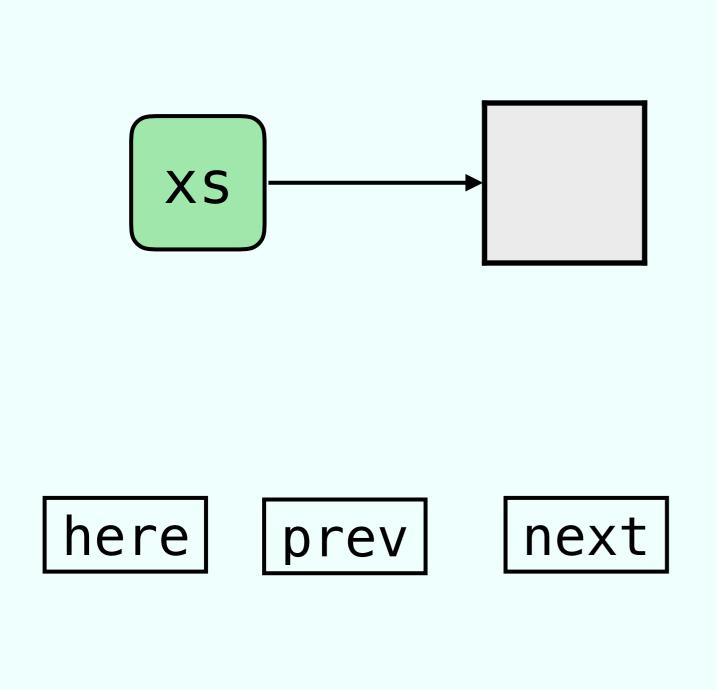
Exercise 3.29

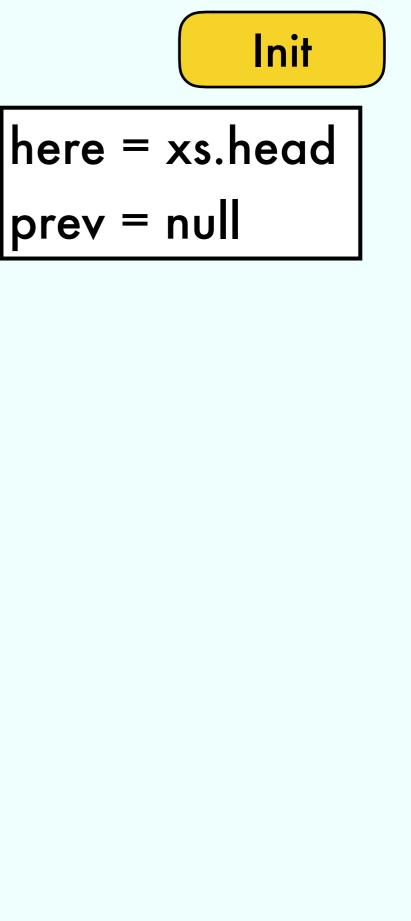
Print a singly linked list in reverse in constant space:

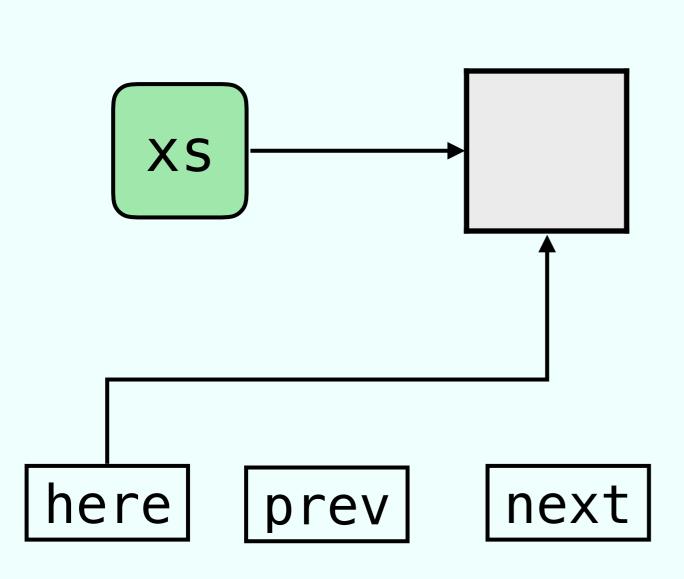


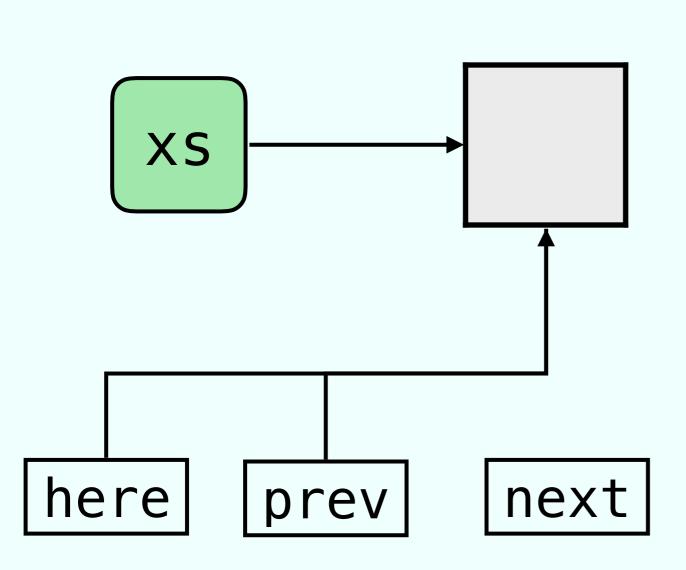


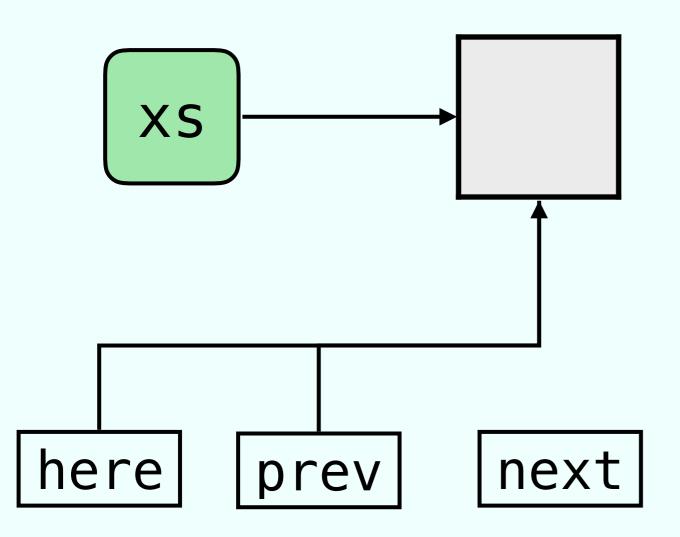


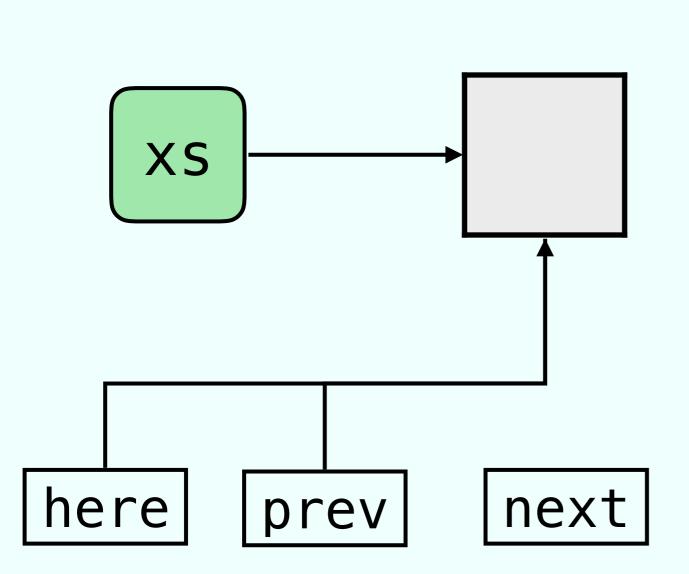


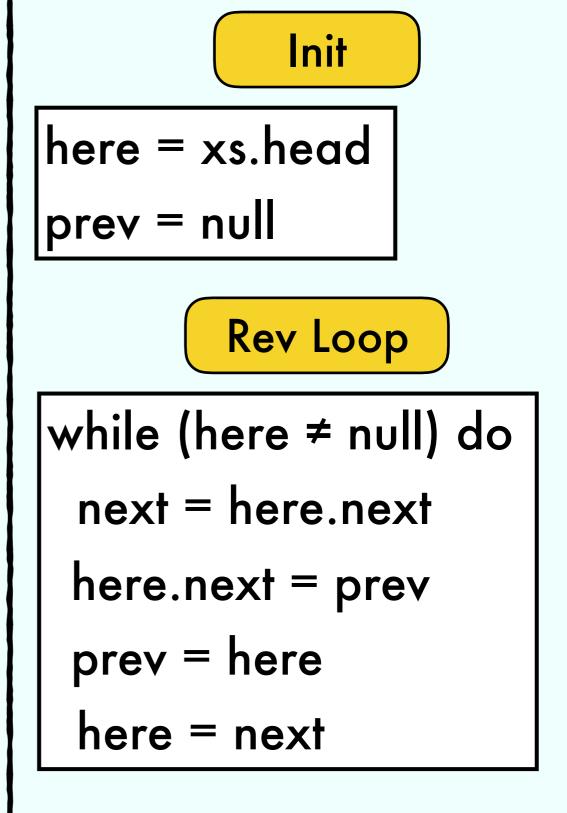


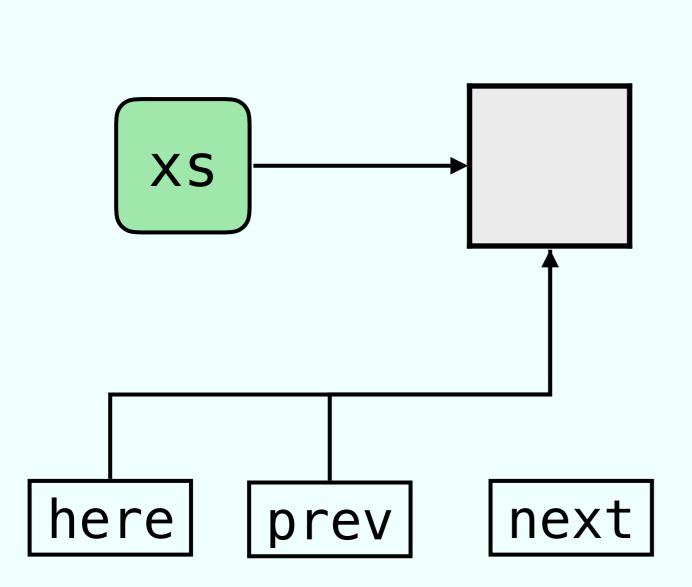


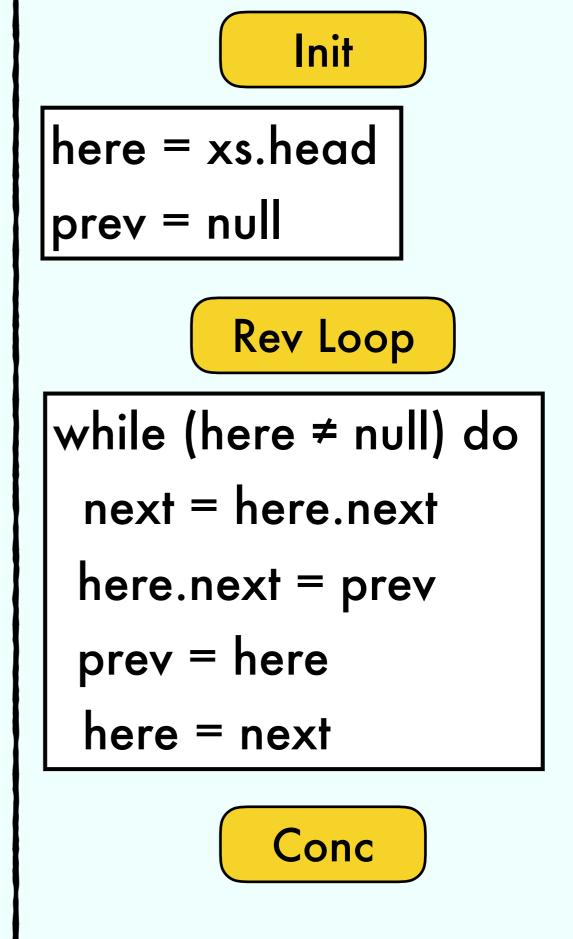


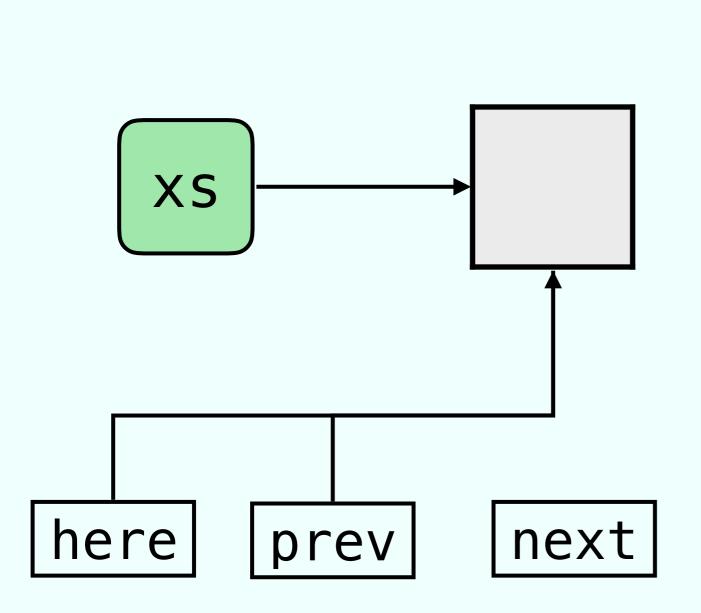


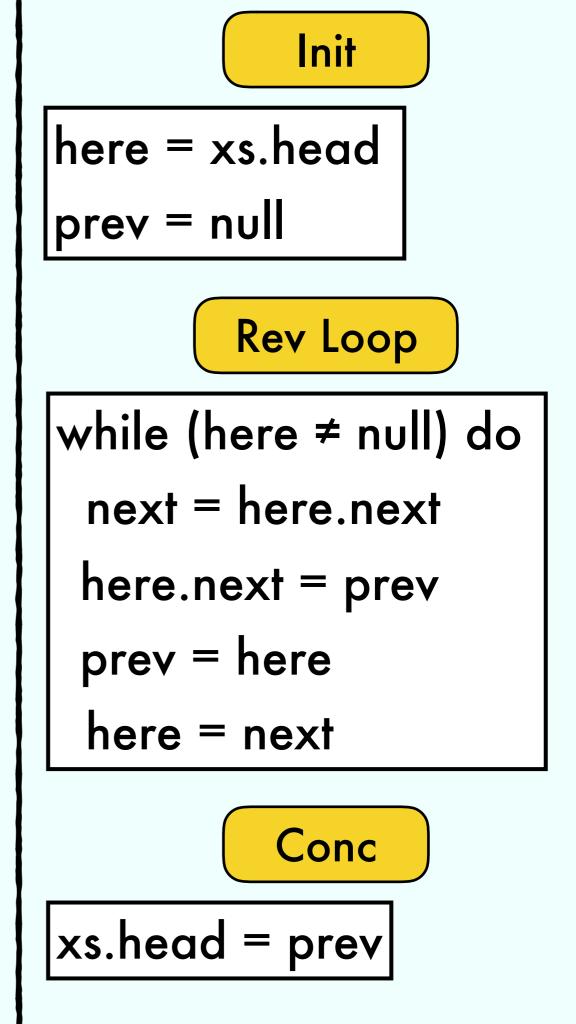


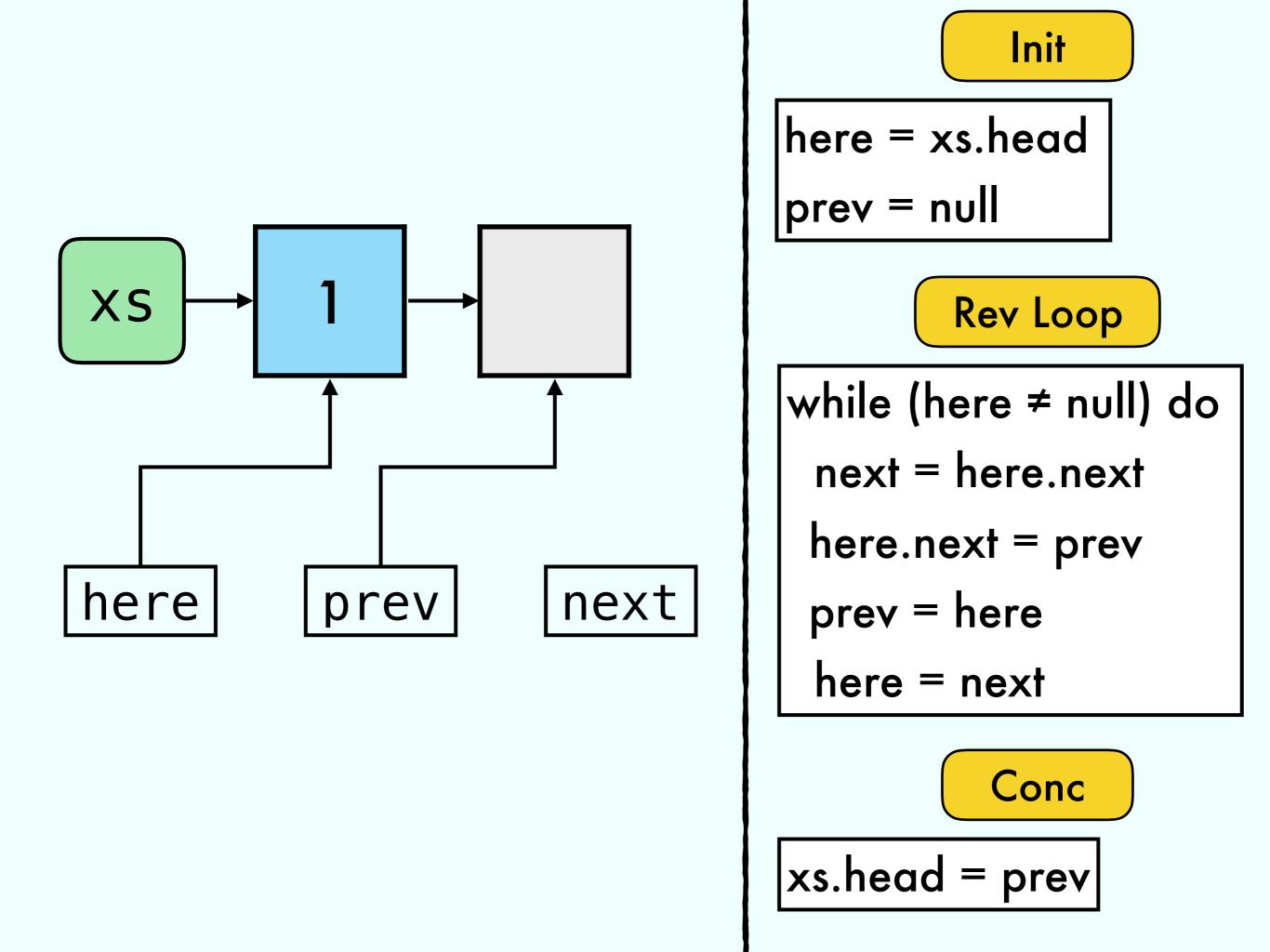


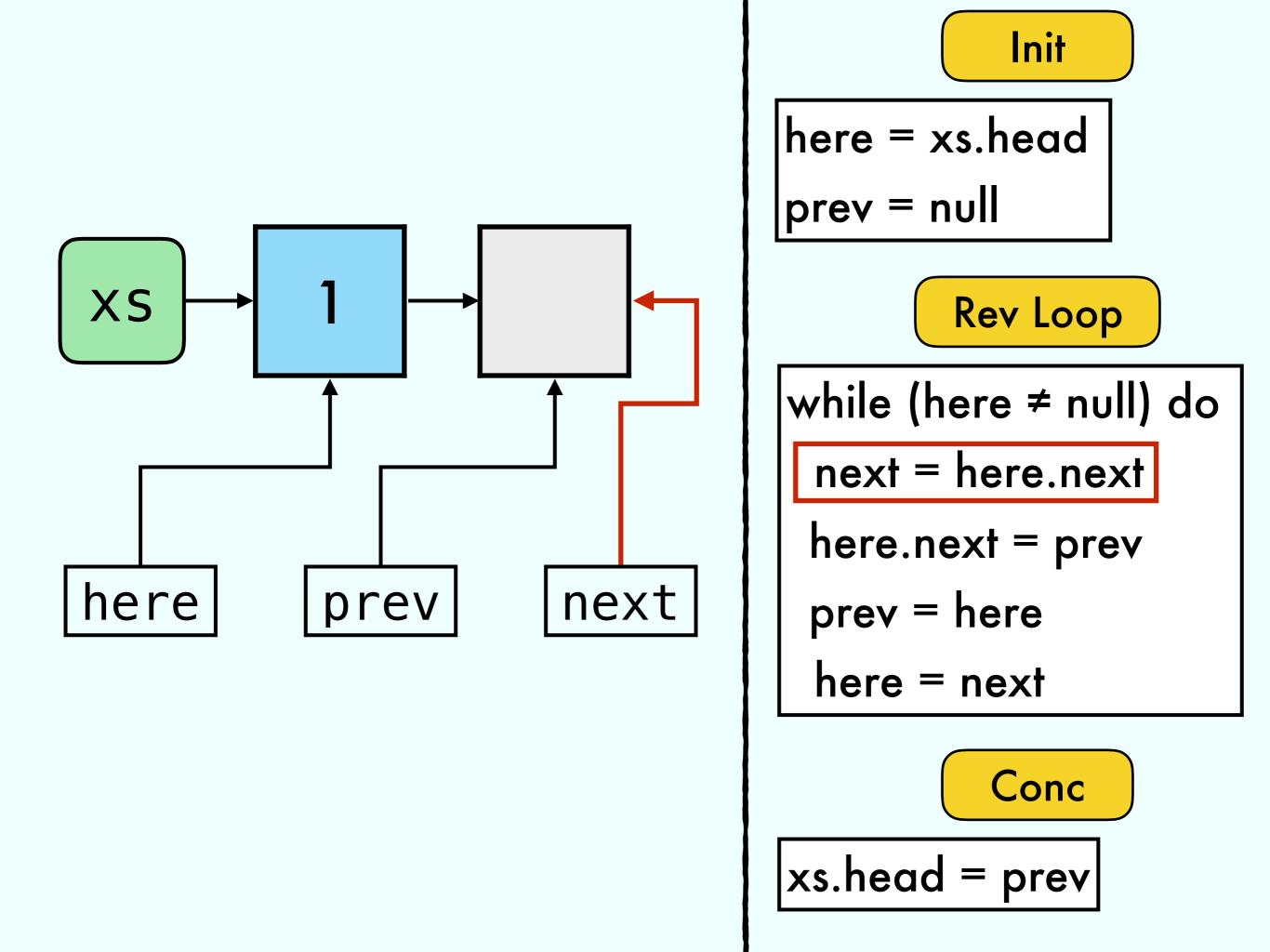


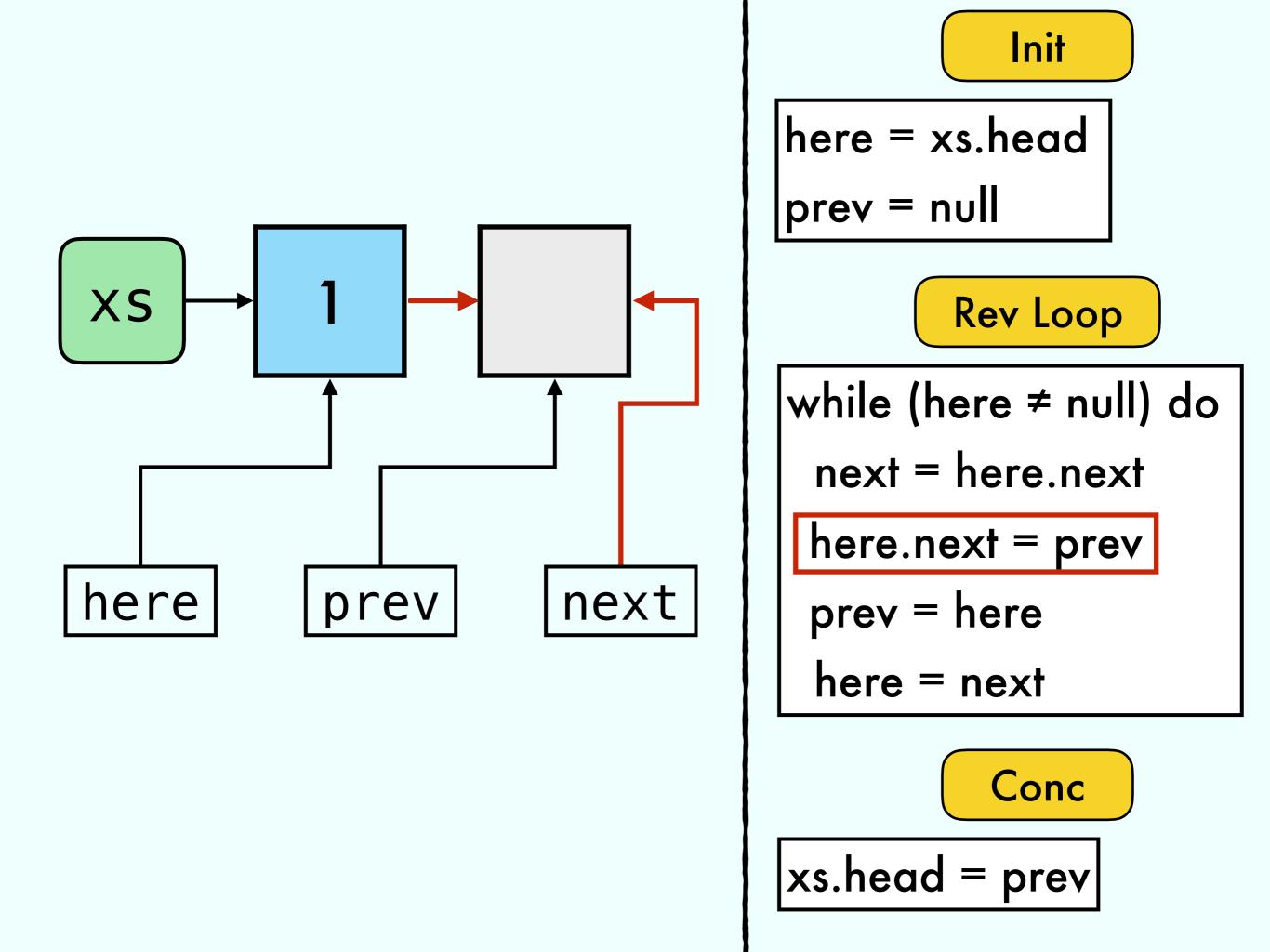


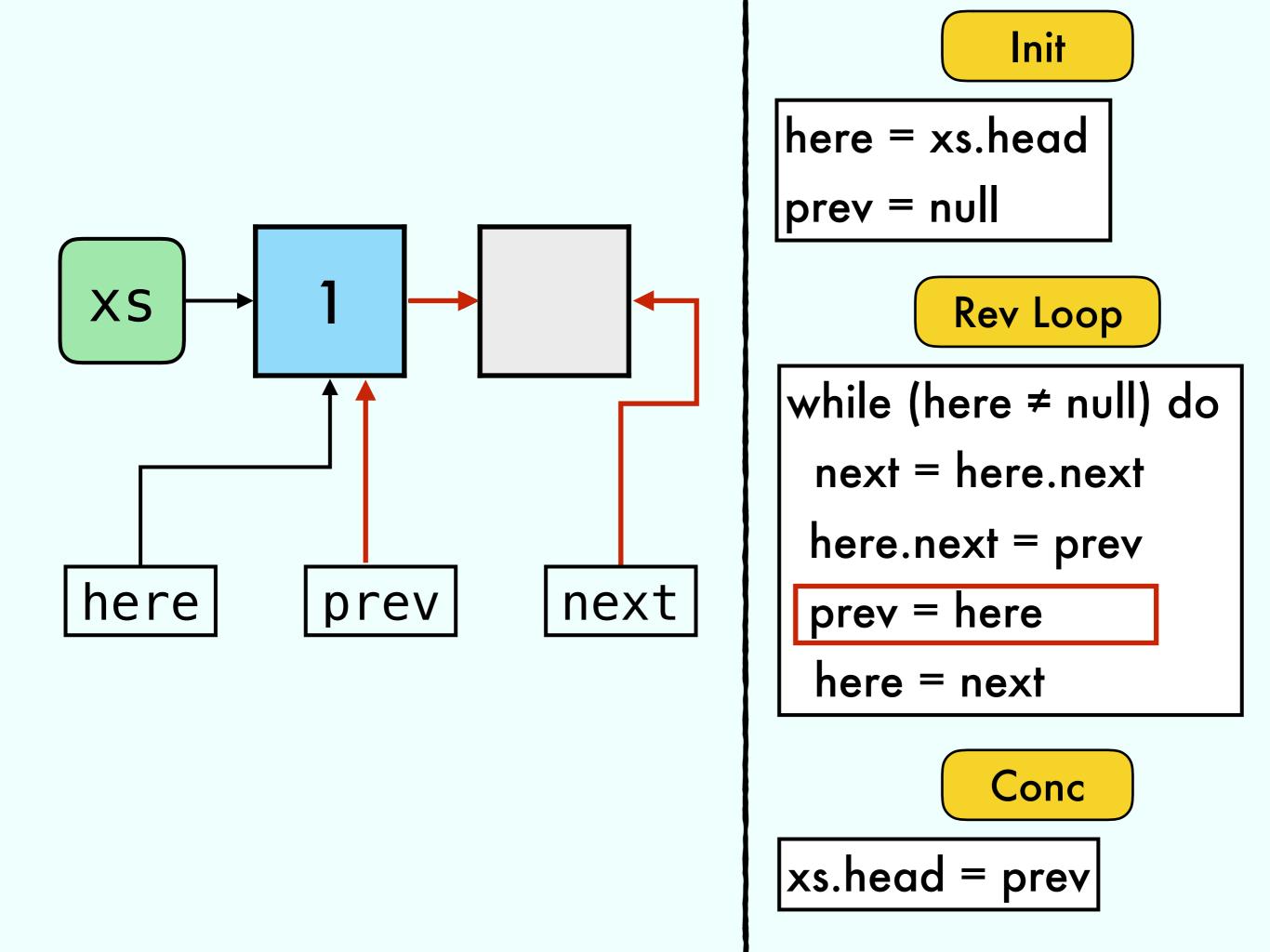


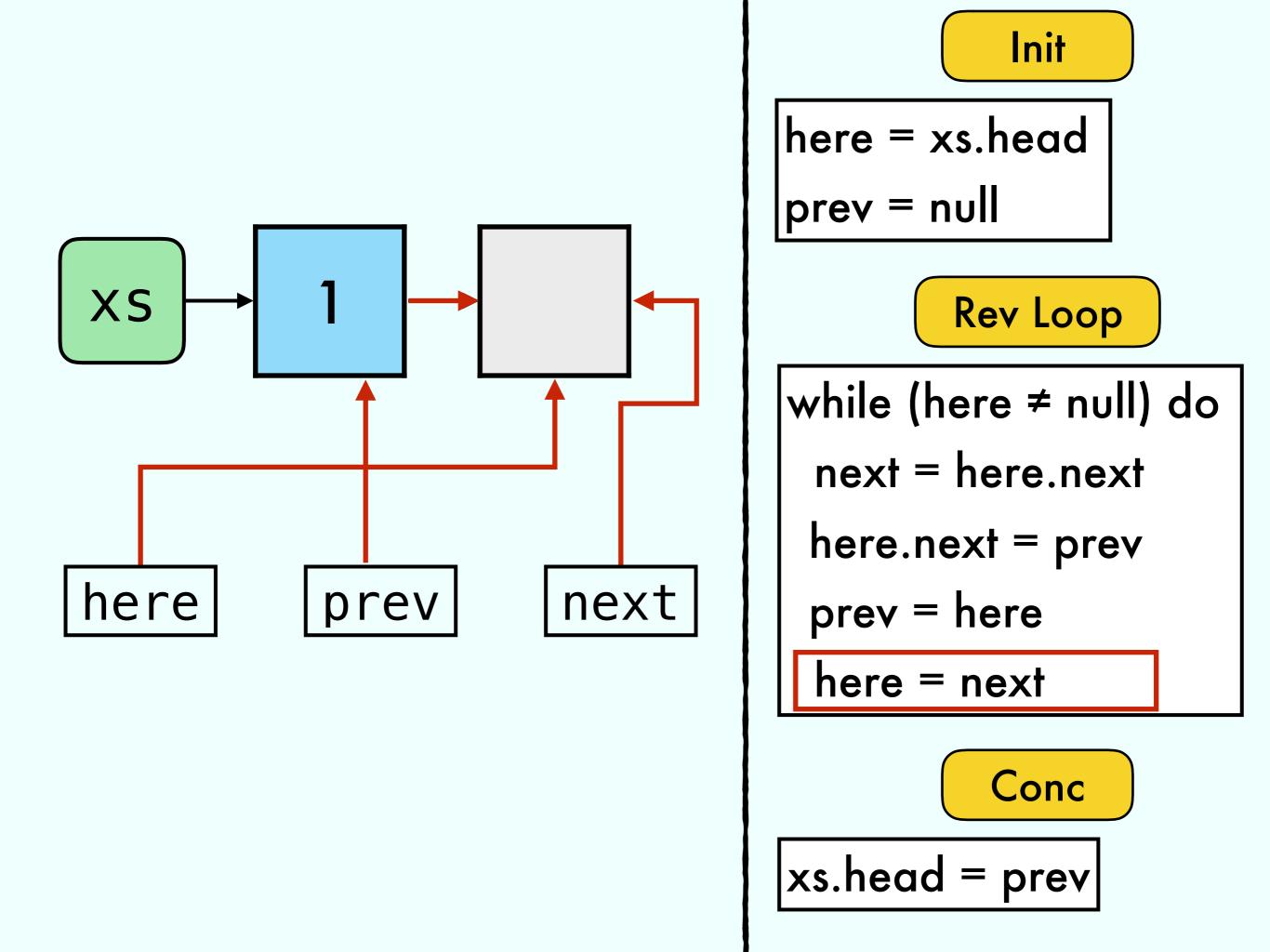


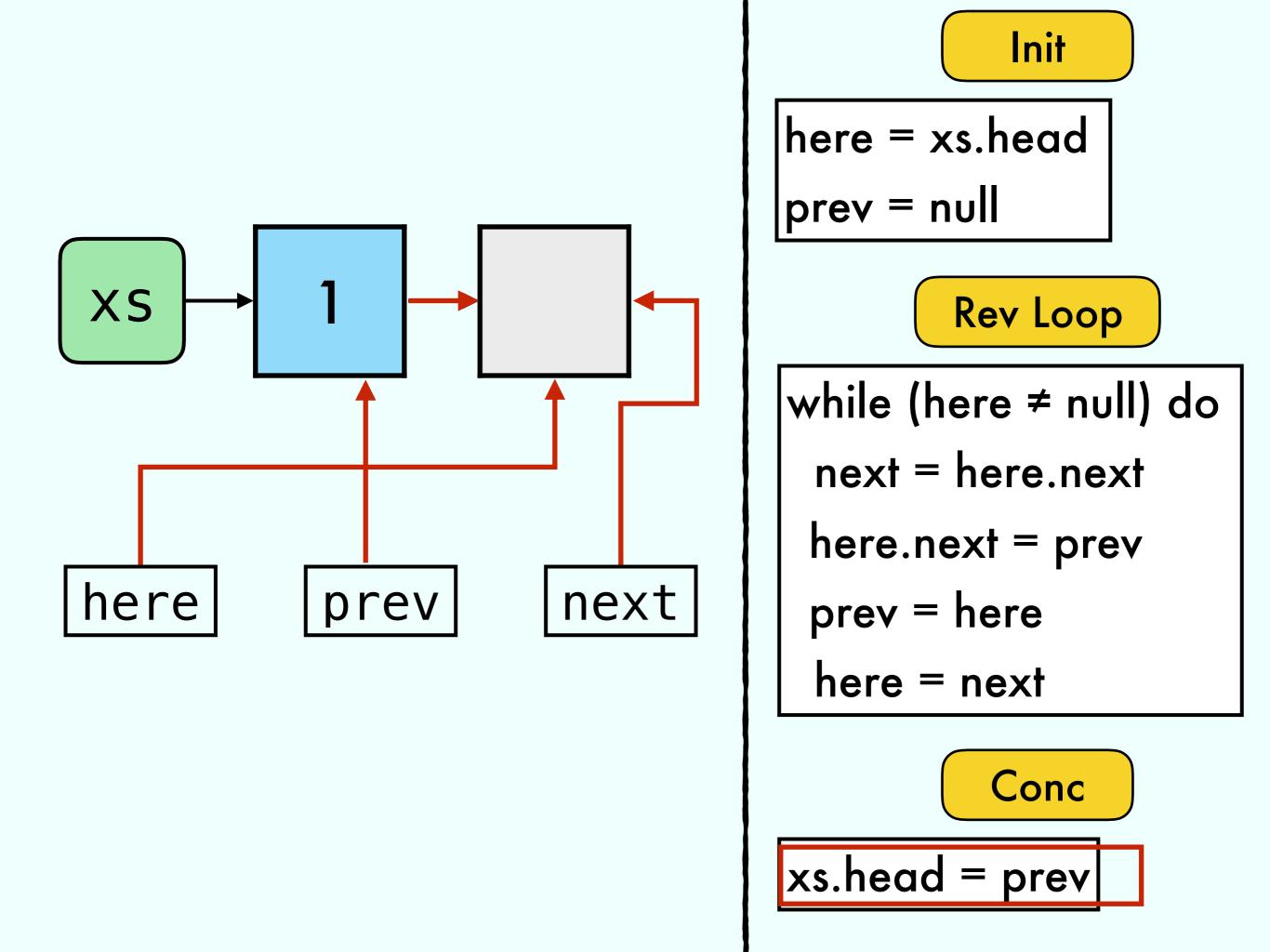


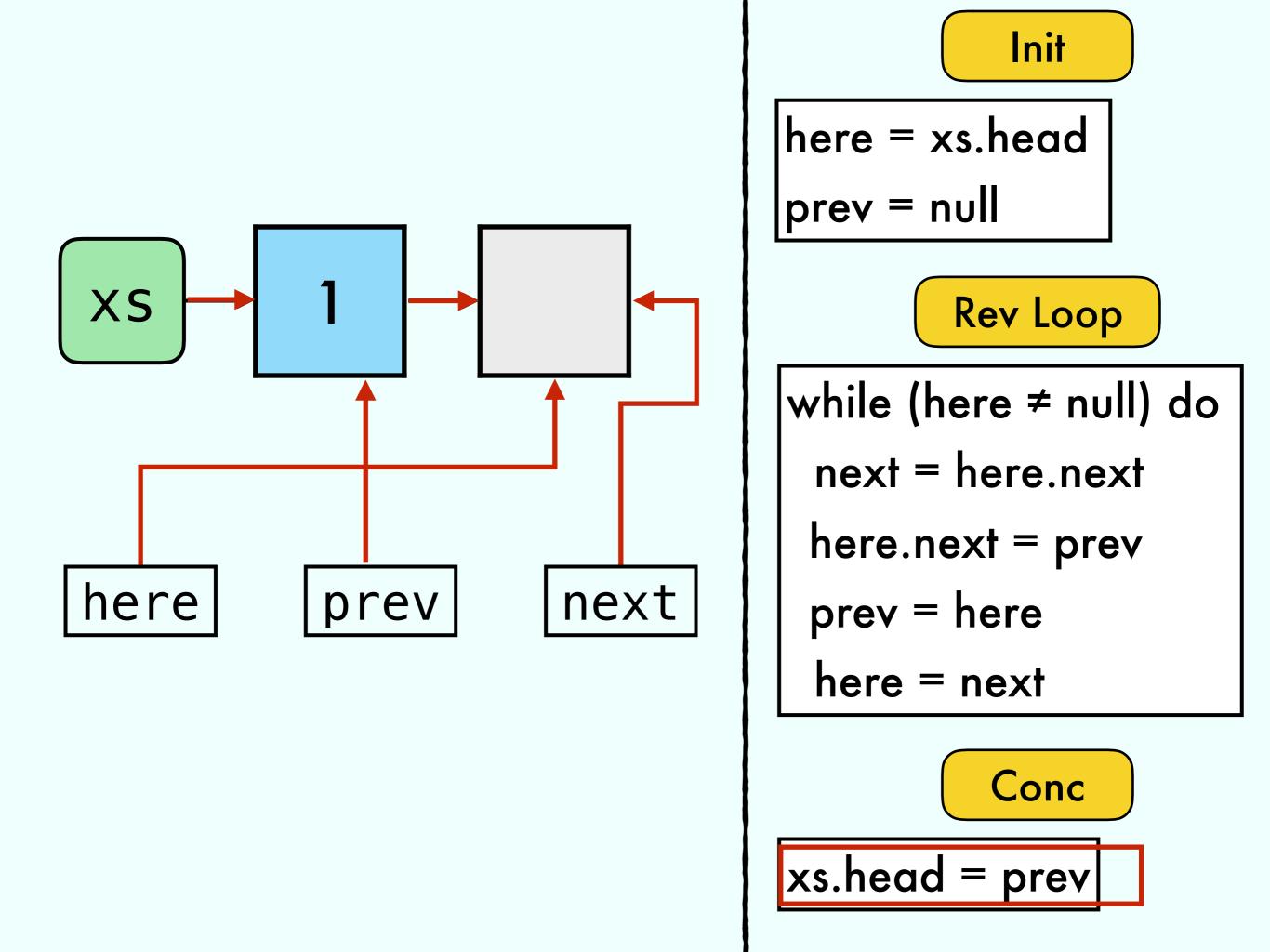












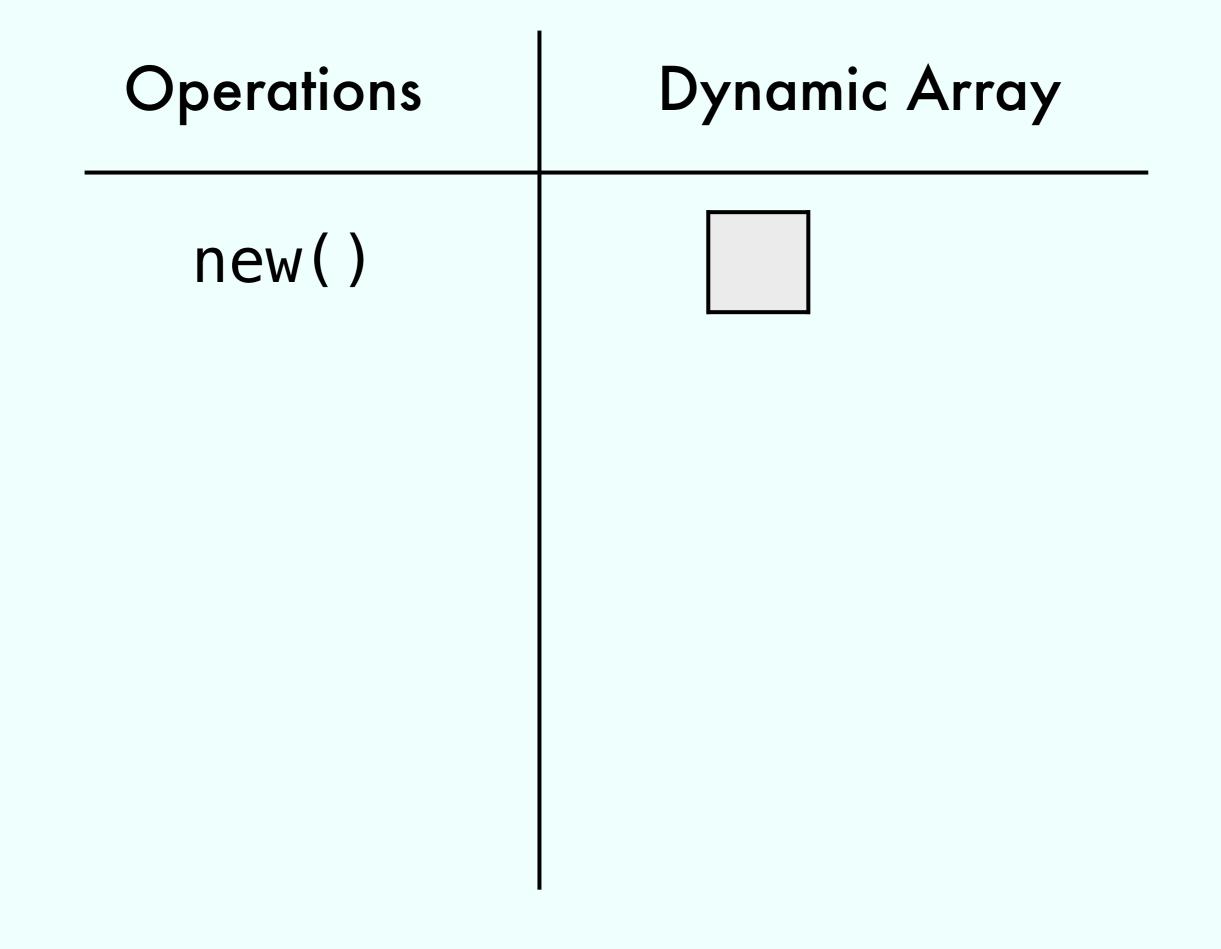
Exercise 5 from 13/04

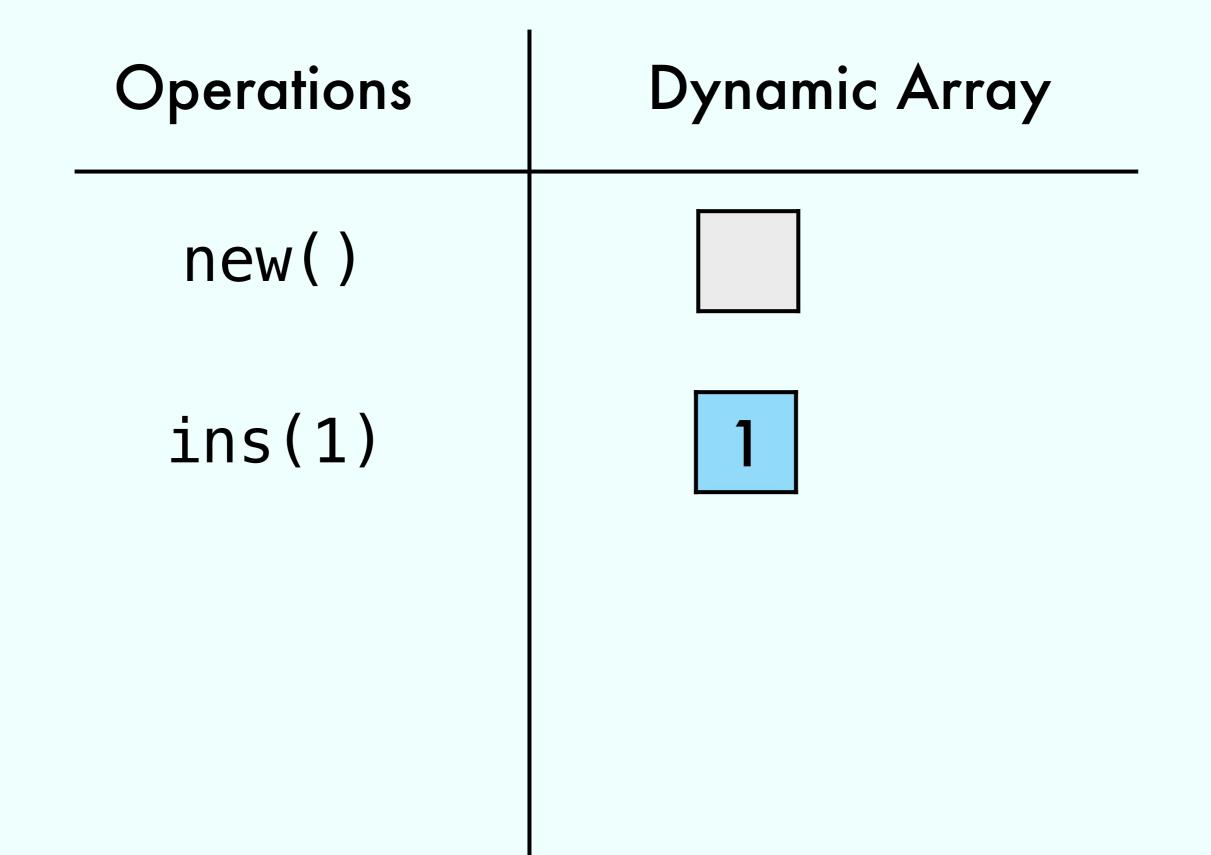
Dynamic Array:

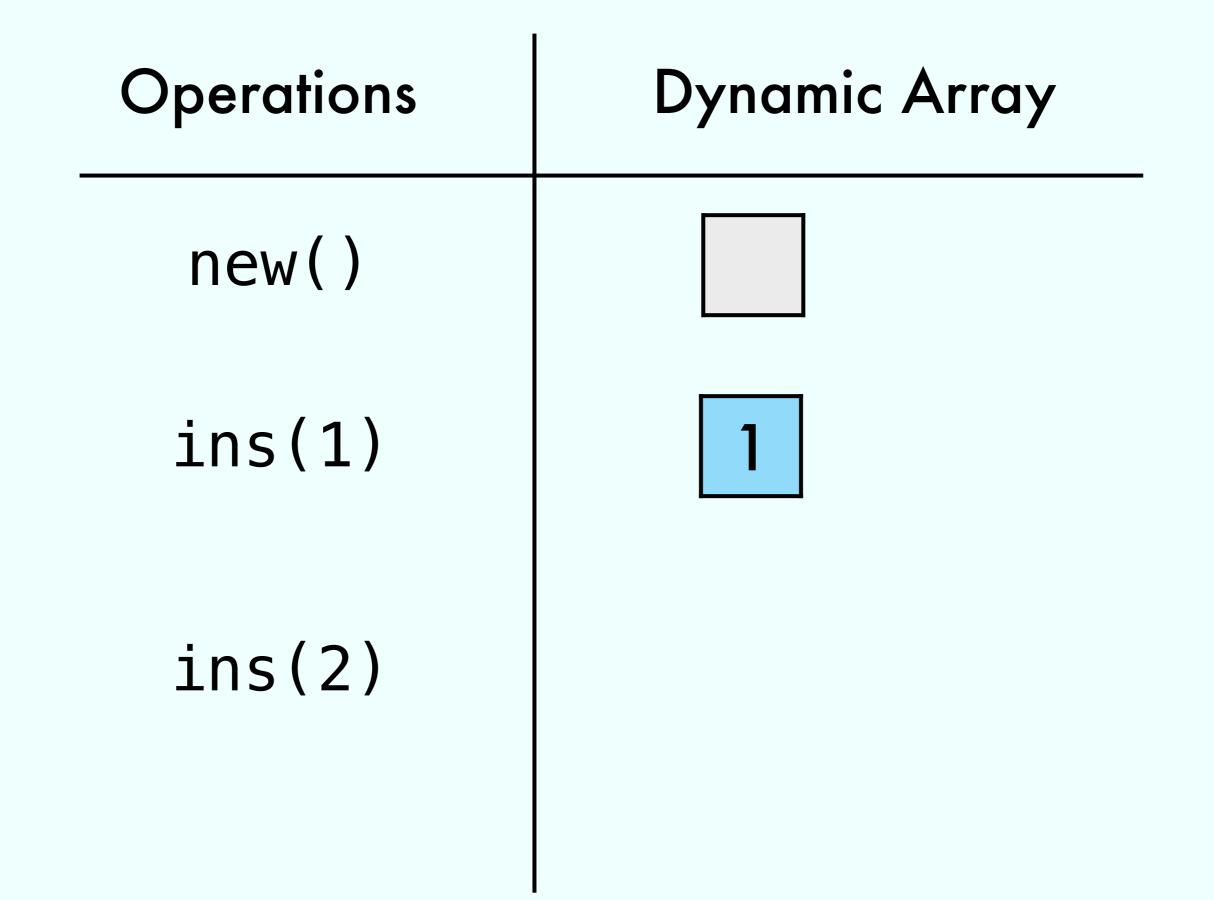
- ins(x) // Insert in first empty position
- del() // Removes the last element

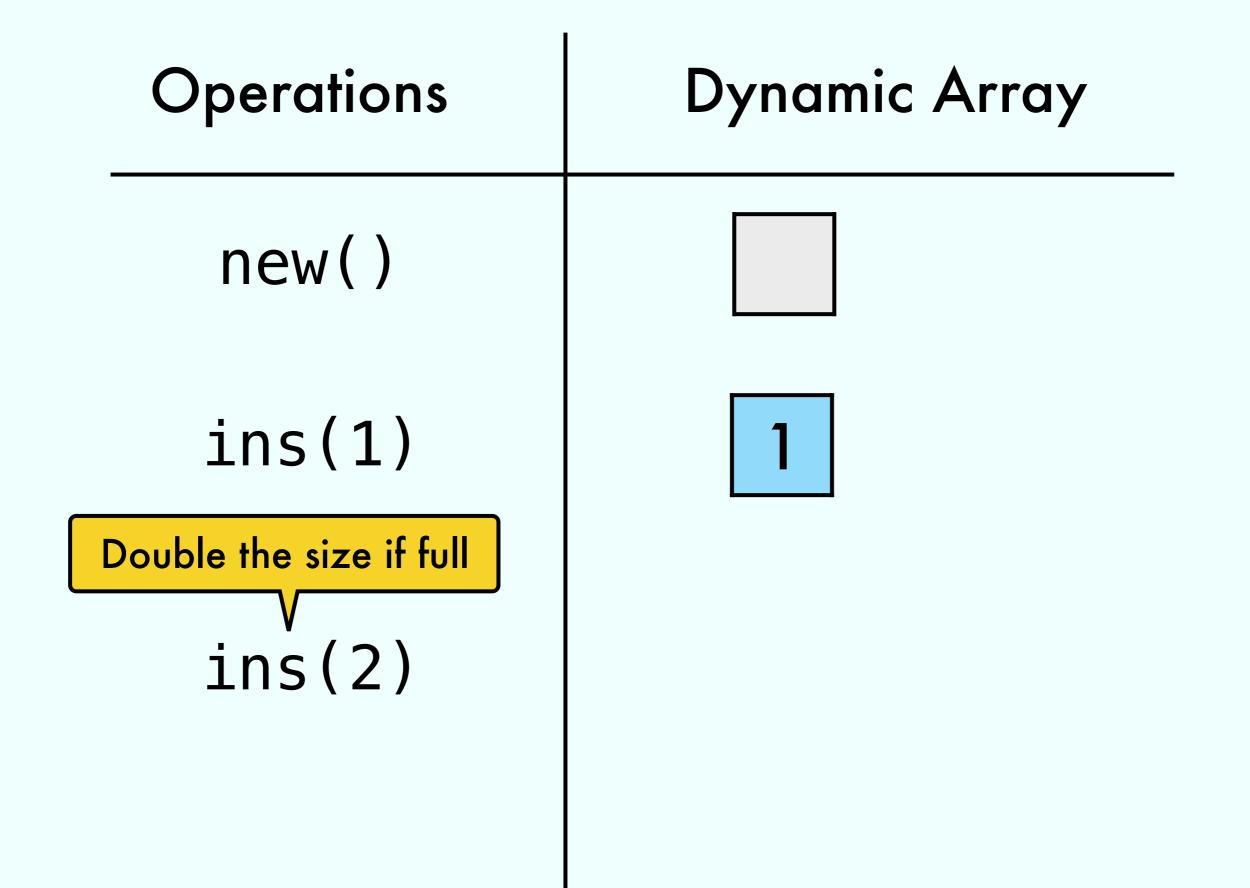


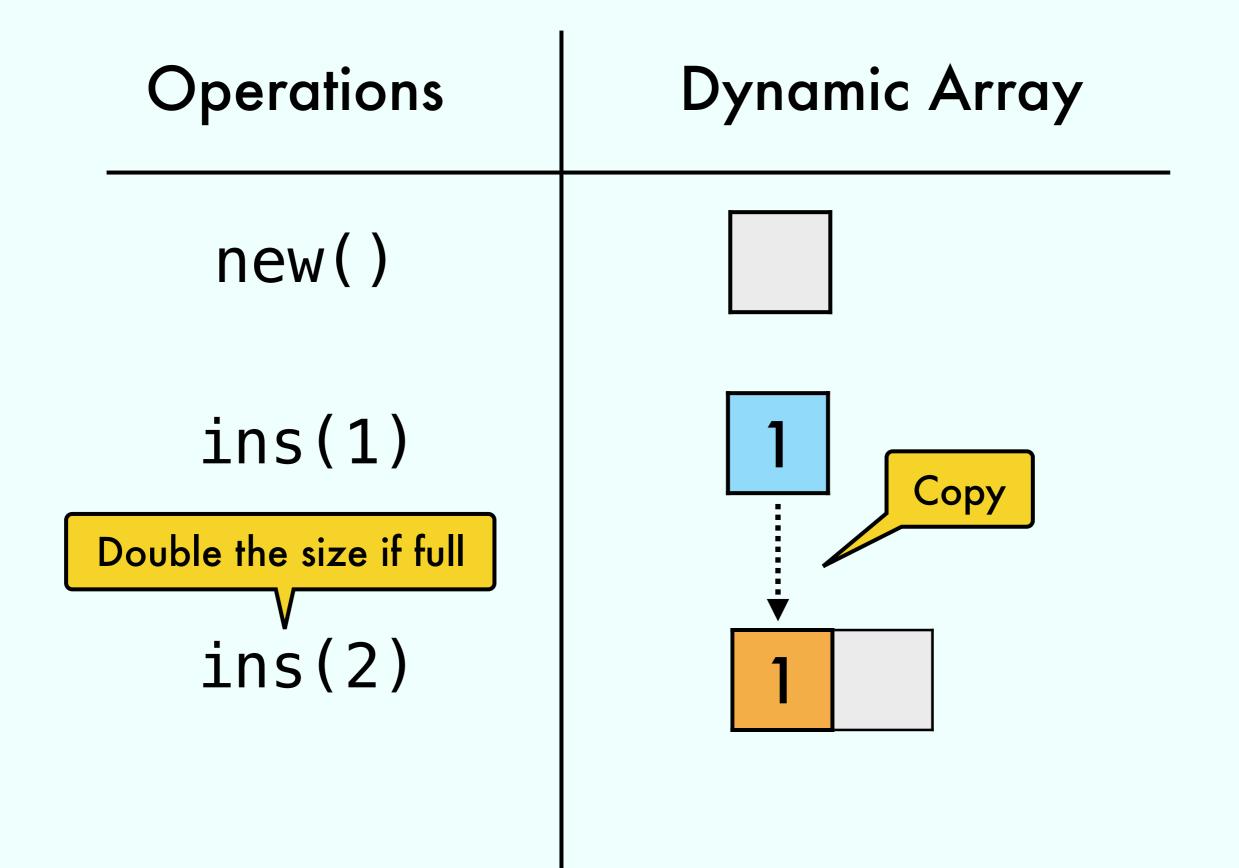
Dynamic Array

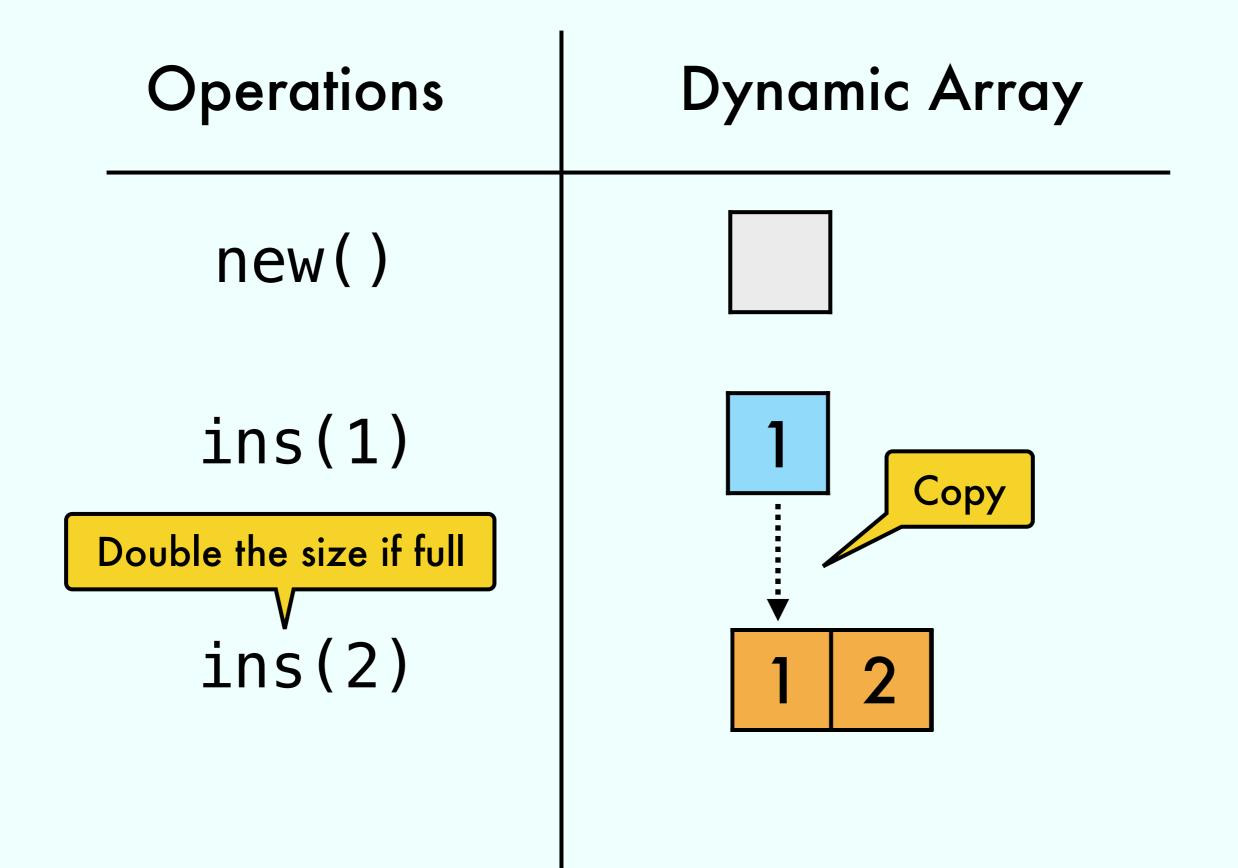


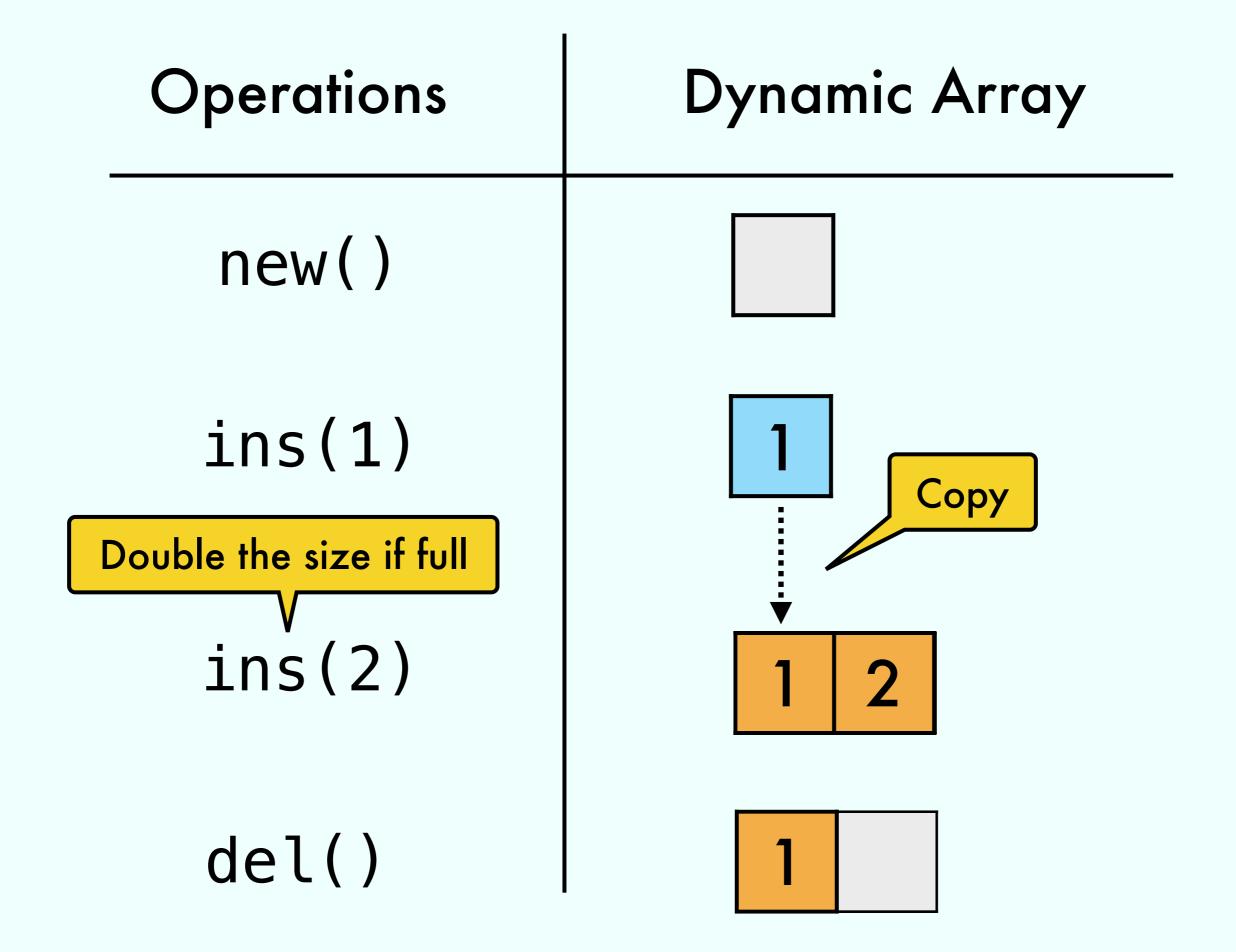


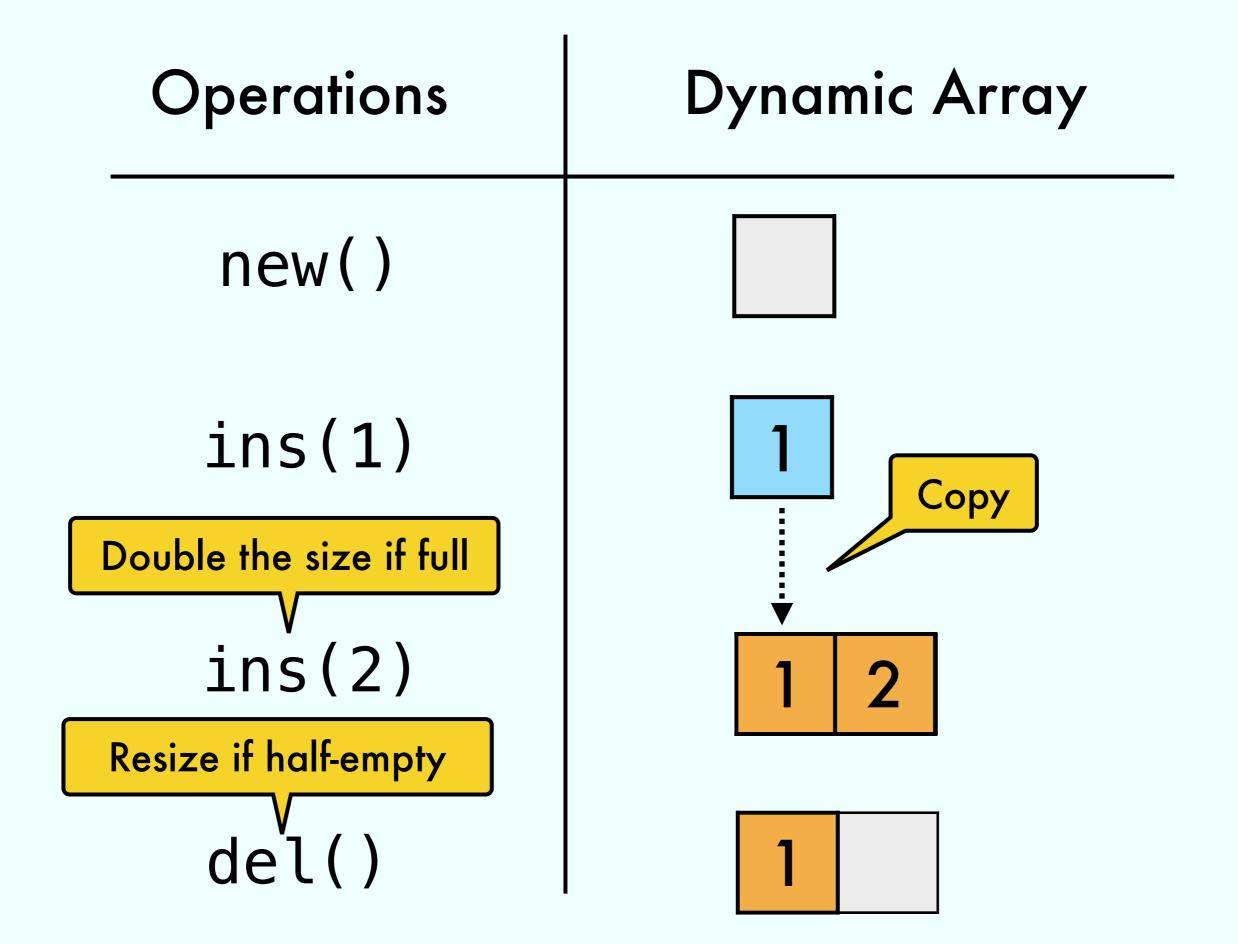


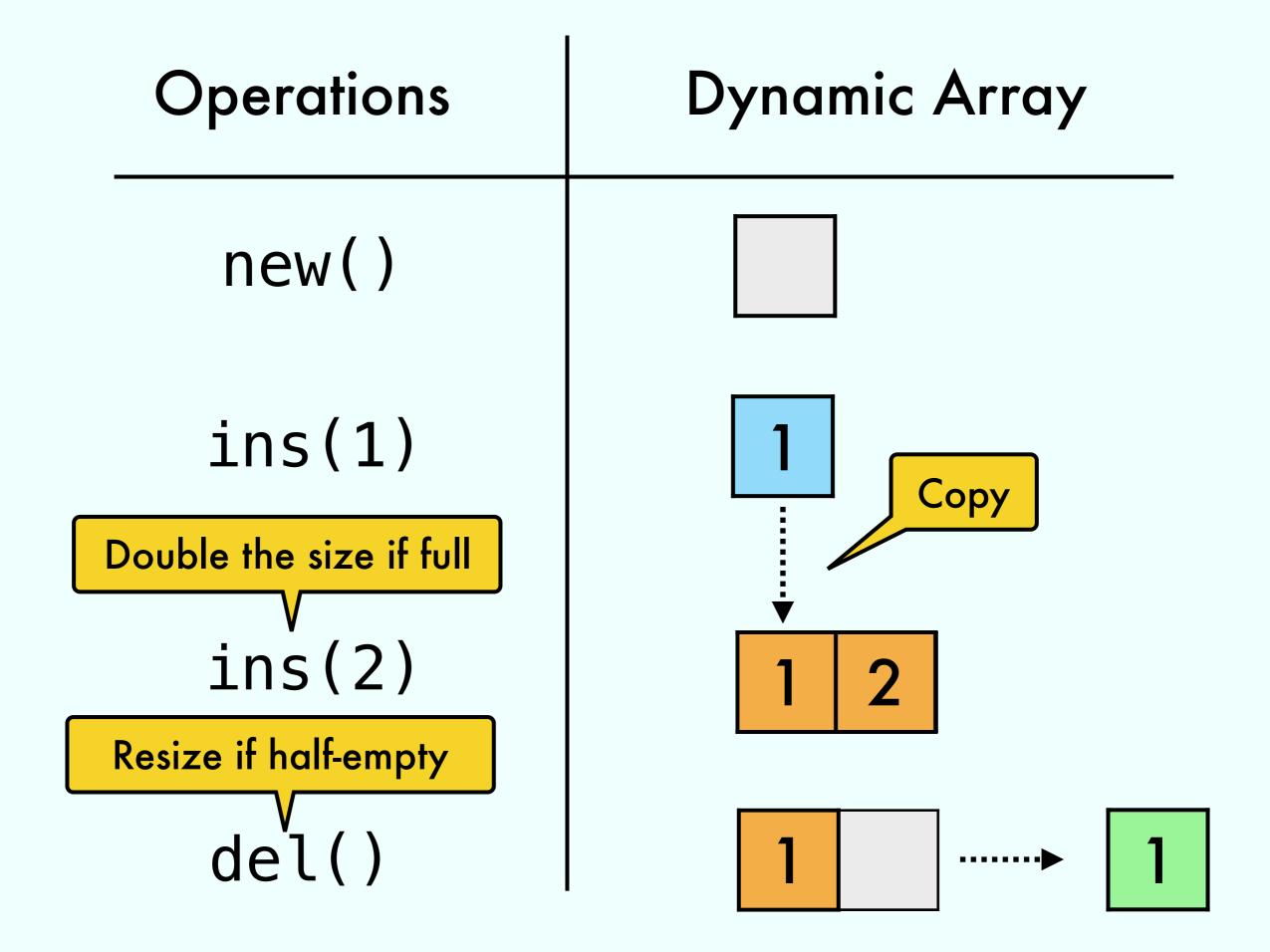












Exercise 5 from 13/04

For every N exists S_N : Sequence of N operations such that $T(S_N) = \Omega(N^2)$