

Please take a seat with some space in between you and the next person. Put everything away except for a writing utensil.

161-01

Stacks & Queues with lists

Wednesday December 4

Agenda

0. Quiz
1. Announcements
2. Discussion
3. Lab

Quiz



Announcements

- Homework 8 is out. Take a look before Friday.
- Token Events
CS Extras (Candidate talk) Thursday at 4pm,
Noyce 2022

The Stack ADT

Think of a stack like a stack of cards, where we can only remove a card from the top of the file.

The last value added is the first one returned (last in, first out)

Interface:

- push: add a value to the top of the stack
- pop: take a value off the top of the stack and return it
- peek: look at the value on the top of the stack without removing it

The Queue ADT

A queue holds values as if they were waiting in line.

The first value added is the first one returned (first in, first out)

Interface:

- add: add a value to the back of the queue (aka "enqueue")
- take: take a value from the front of the queue (aka "dequeue")
- peek: look at the value at the front of the queue without removing it

Lab



Wrap up



For next time:

- No reading for Friday
- Take a look at Homework 8