

## CS 61B!

## 1. When am I useful Senpai?

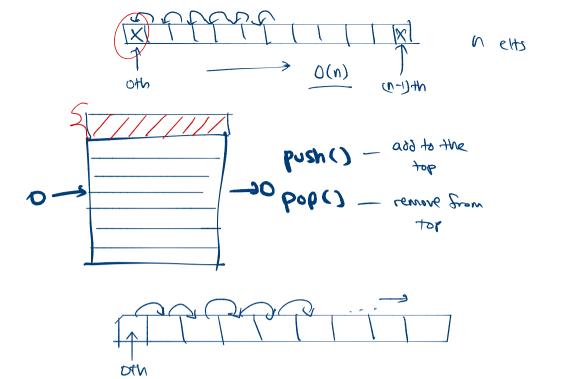
- Customer in a line ⇒ first in first out (FIFO)
   ⇒ Useve (D)
- 2. Requirements: fast for { Search O(1)

  Not fast for { Search O(n)

  Linked List (B)
  - 3. Constant time access

    Arrays (A) assume in 618

    arr [:] is 0(1)
- 4. Last in First Out (LIFO)
  Stack



2. Reverse Me	lst
Input: 40, 6	Tabed (
private Static void	reverse (MyInta 2) {
Stack S =	new Stack () // make a stack
while ( ! q.	is Empty(1) {
S. push(	Q. dequeue ()) //
→ While (Is.isE	mpty()) {
q enqueu	( s. pop ());
3	
S. push (q. d.	

adds Htos

ζ Green 0 0 0 9 F150 - Q [150 - S 0 6 0 0

3. Pseudo Stack

public void push (int item) { 92 enqueue (item); while ( ! el . is Empty () ) { 22. enqueve (Q1. dequeve()); My Int Queve temp & = el; 22 = temp Q; public int pop () { order if (! q) , is Empty ()) { return q1. dequeue(); 3 else S-11 throw Exception

Tigure out how
to odd the latest
element to Front

ar Tockar Te

push
add to front
of queue

cemore from

Str. charA+(i); 4. A Balancing Act private Static booken has Valid Pavens (String Str) { Stack S= new Stack (1) for (5) i=0; i < str. longth(); itt) { char C= Str. charAt (i); > if (c== '\\' | c== '\' | \ c== \\' | \) } 5. push (getRight Paren (c)); 3 else E 9 if (S. 15 Empty ()) { 11 F= more close return false; than open 3 = if (c!=5.pop()){/F=> return false; order barens Errory 3 (mismatch) retorn s. is Empty (); More open than close i found a valid string

