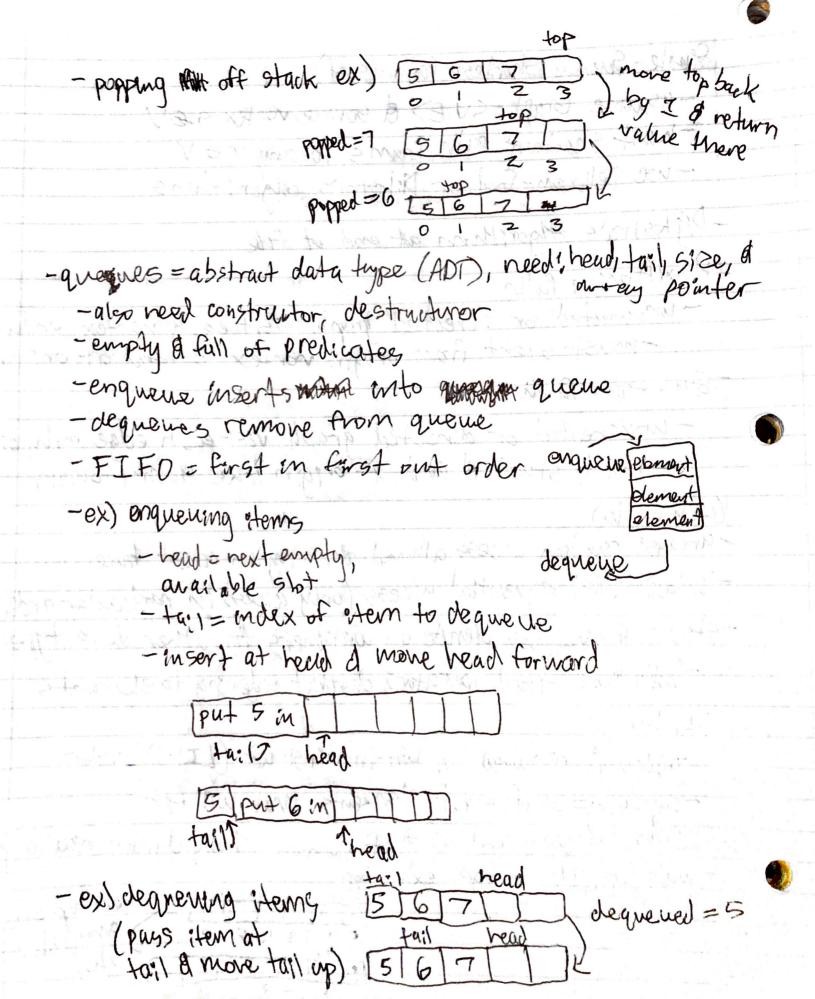
(Lecture bo) - arrays: random access allowed develop in const time -linked lists: sequential access (only access in particular order) - stacks a gregues operate as containers for other data types - both have fixed operators, destinct ordering to elements -added & removed by last-in-first art (LIFO) order - capacity = # of stack elements that will fit (can be increased as # of elements T by dynam realbastron)
- pushing adds to trop ext top how top=next available empty 1 23 45 6



-empty queque	has same head & tail	
- full queue ?	$F \text{ head+} = +n! \pmod{n}$	

- mulder unbounded queres from I in head 185ts possible - has wrapper, keeps track of head of tail

-stack removes most recently added element -queue removes least recently added element

- priority queue: every element has priority associated w/it

- element of highest priority is dequeued before elements

w/ homer priority

- if 2 elements have same priority, preference given to

position of element in queue

unit size in bits value
bit 1 ol1 & smallest
nibble 4 hex digit
byte 8 ASCII & smallest addressable
halfword 16
word 32 native size, register length
hong word 64 i 11

-bogical shift moves everything Lor R of adda D to empty shot

-arithmetic shift left = 0s from right of right = sign bits from left

-cc = left shift o => = right shift

XDR 1:

Seete
- Set operations: ADB intersection
-Set operations: ADB entersection AUB union
A-B=ADB difference
A or Ac complement
The company of
-setting bits use or
-dearing between 111
-dearing buts use AND
-getting bits use shift right of AND
TO BETTO BETT THE WAY OF THE BOTH OF THE B
Data Compression
Pinfo Grand Quantil 3, Quantil 6
- Penfo saurce > framsmitter > chamie   > receiver > destination
WIRN P MY THOMAS TO THE
message signal/received eignal message
A rode or masses to be commended
1) produces message to be communicated
@ operates on message, produces signal for channel
a modern de housement c'and
@ malium to transmut signal
@ performs inverse operation of transmitter
(3) target of message
Entropy = uncertainty of event's occurrence 11 %
P: boy (P:
Entropy = uncertainity of event's occurrence $H = -\frac{n}{5}$ piloy/pi Laverage #of Q's needed to guess random is)
Symbol picked from message

Mustmani. Ascil symbol, make nestogram if 256 indices Les tree, code table, dump tree as mas reconstruct tree

[1778 Encoding example in strates #15] (decoding too)