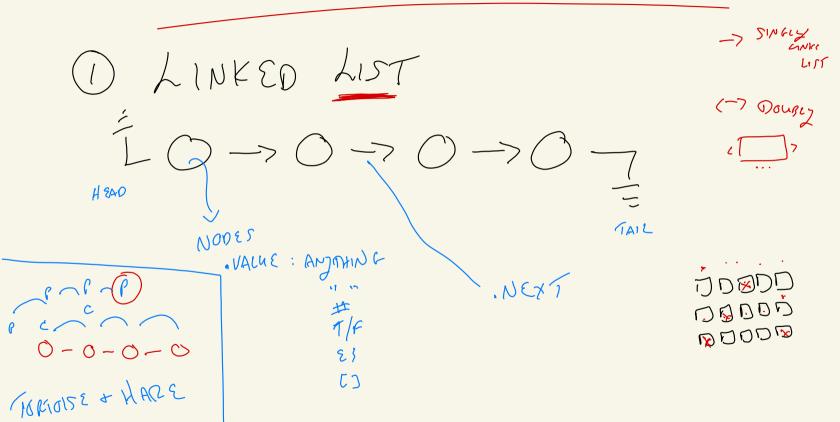
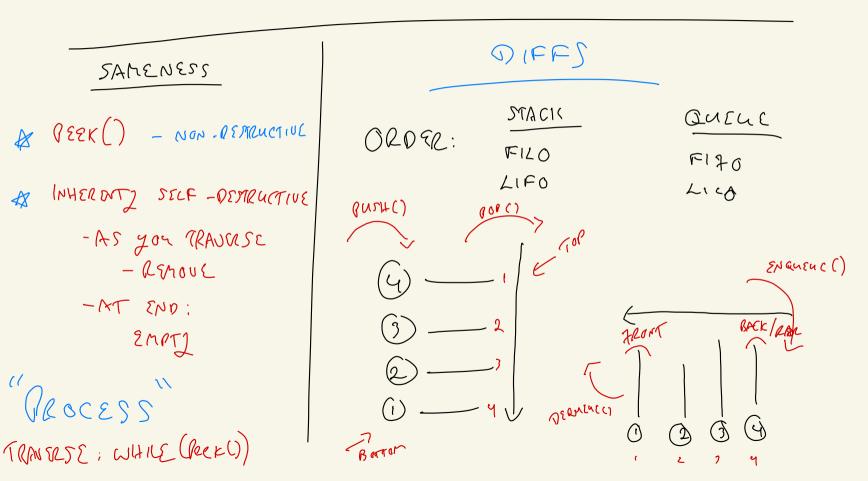
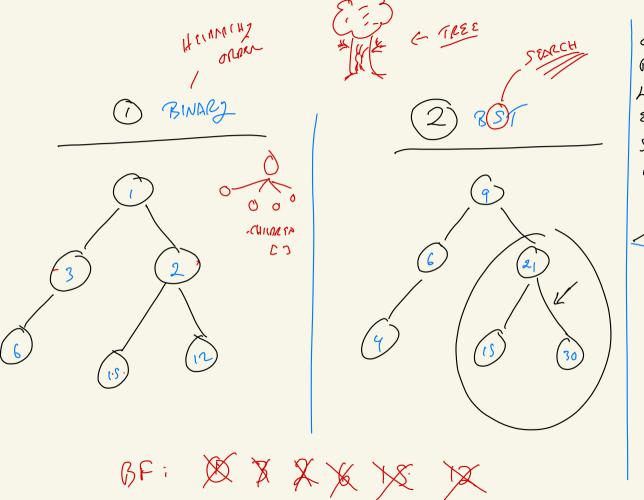
DATA STRUCTURE



STACKS + QUEUES





comm

CHILDRAN: LEFT RELET

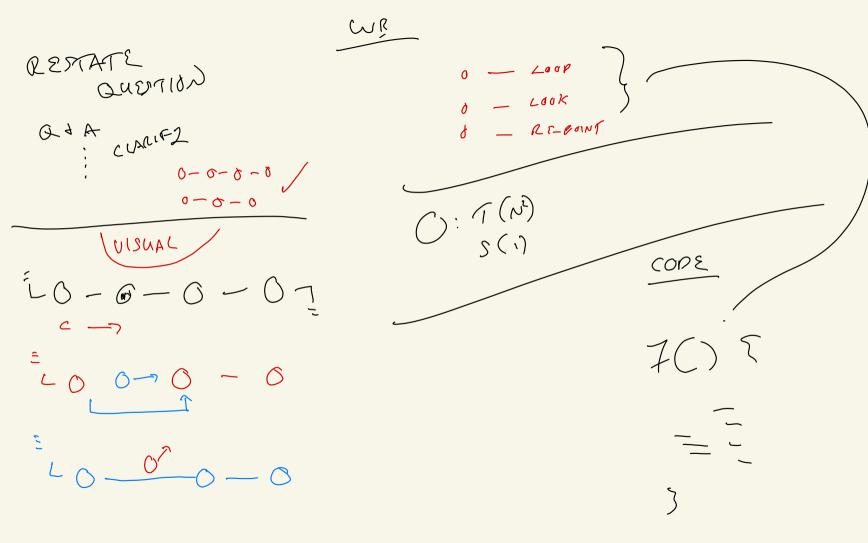
PARWT: . ROOT LEAF = NO CHILDREN

EDGE: CONNICTORS

11 -51 S. F.

BERNTH FIRST ~

How LANZ Ther boer beni any BITER DO I CONSUME efficiency COPILY DO I HACK EMOUST IN CALL MACK OPERATIONAL CONVEXITY TME - COMPUTE CZCLES
OPS SPACE - remory / four Meint # Bytes / THING / COPIES



HASH TABLE (HASH MAP

KEY/MINC STORE ANN E: "STUDENT". OBJECTS DRANDON: "STADENT", J SON ROSIE: " DOL", FINA AKEZ = O(1) TIME COM 2(14) HASH TABLE VALUE 107 HASHING STUDINT KEZ=# Bramon ROSIE PEOPLE: NEW MAR () 3 BUCKETS-EANNE: MURANT (L.L. BROPLE. SET ("ANNE", STUDENT) REOVER. GET ("ANNE") =4

a:TRUE b: TRUE, C: TRUE L: TRUE NEW MAR () 3 X: TRUE (f (MAP. HAS ("a")) NAP. SET ("A", TRUE);