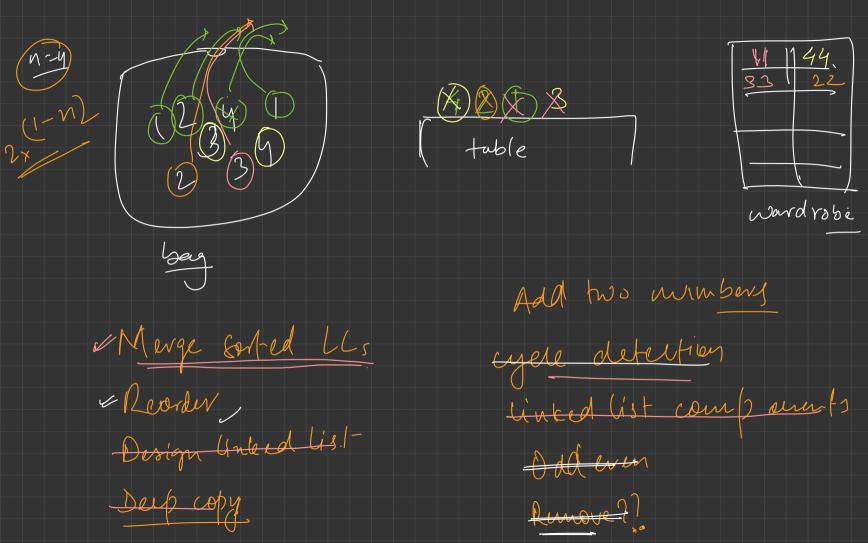
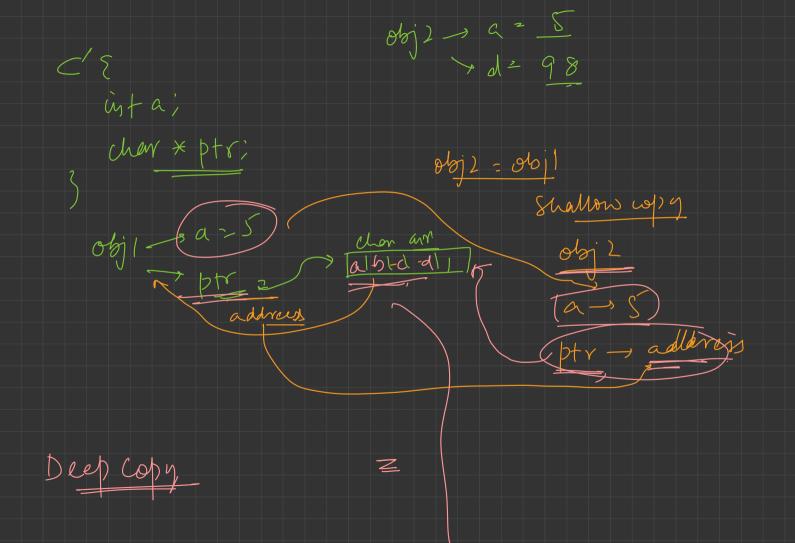
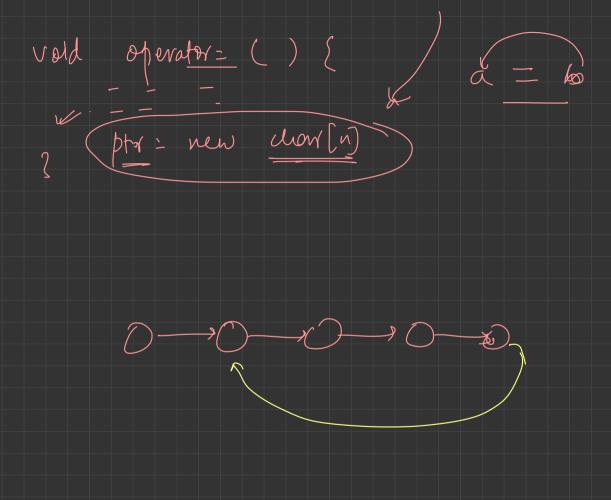
Registration Andrugsha and socks Logs Second Order Statistics DB) logs Search -ab +06 Store ab c wabc - oc abac - ok abac (abcl) - outour 266 abab usu-negative ubah  $\rightarrow 01$ abci dousnotoxist a5c2

26 abc abac abab abc+(freg) cout a abc (frig + 1) abc+[fry] =) abcz, ab+(1) = ab1 Tratt



Lamon Change Intersection point LL Cab evaluation Shallow copy = bit-wise copy Deep copy Cobj! Shallow Coffy Coloj2 = objl int a; double d;





Cycle Detection 1) nom the modes and if found a node that is already in the neat/set => cycle, else (if mul node) => no cycle Mand-cycle detection algorithms 8000 \$ fast pointer

paint + 2 x cycle lungty Levefta www

at meety) 8(ow has gone through cycle => p-times

fast => q-times fast: x+ (y+2) xq + y = 2(x+ (y+2) p+y) 2(n+(y+2)p+y)=n+(y+z)q+y.  $\beta u + (y+z)(2p) + \chi y = \chi + (y+z) q + y$   $\alpha = (y+z)q - (y+z)(2p) - y$  $\chi = (4+2)(9-2p) - 4$ 

$$= (y+z)(q-2p) - y-z+z$$

$$= (y+z)(q-2p) - (y+z) + z$$

$$= (y+z)(1-2p-1) + z$$

$$= (y+z)(1-2p-1) + z$$

$$= (y+z)(1-2p-1) + z$$

$$= (y+z)(1-2p-1) + z$$