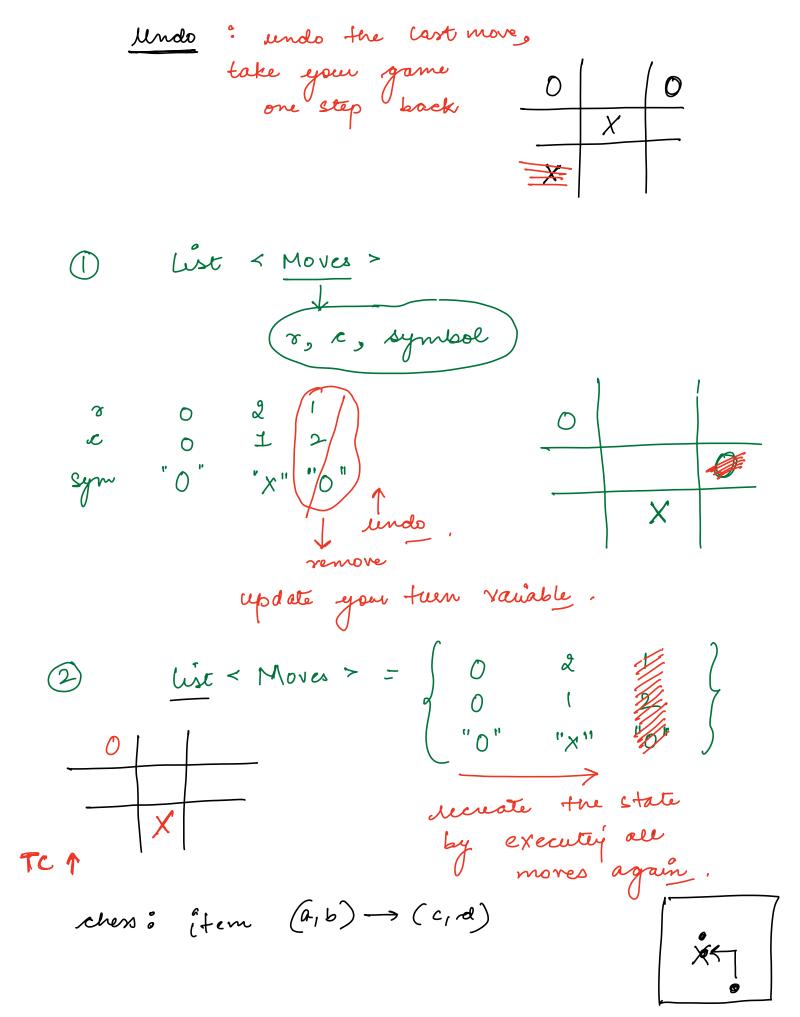
Agenda:

√0 undo

② class diagram

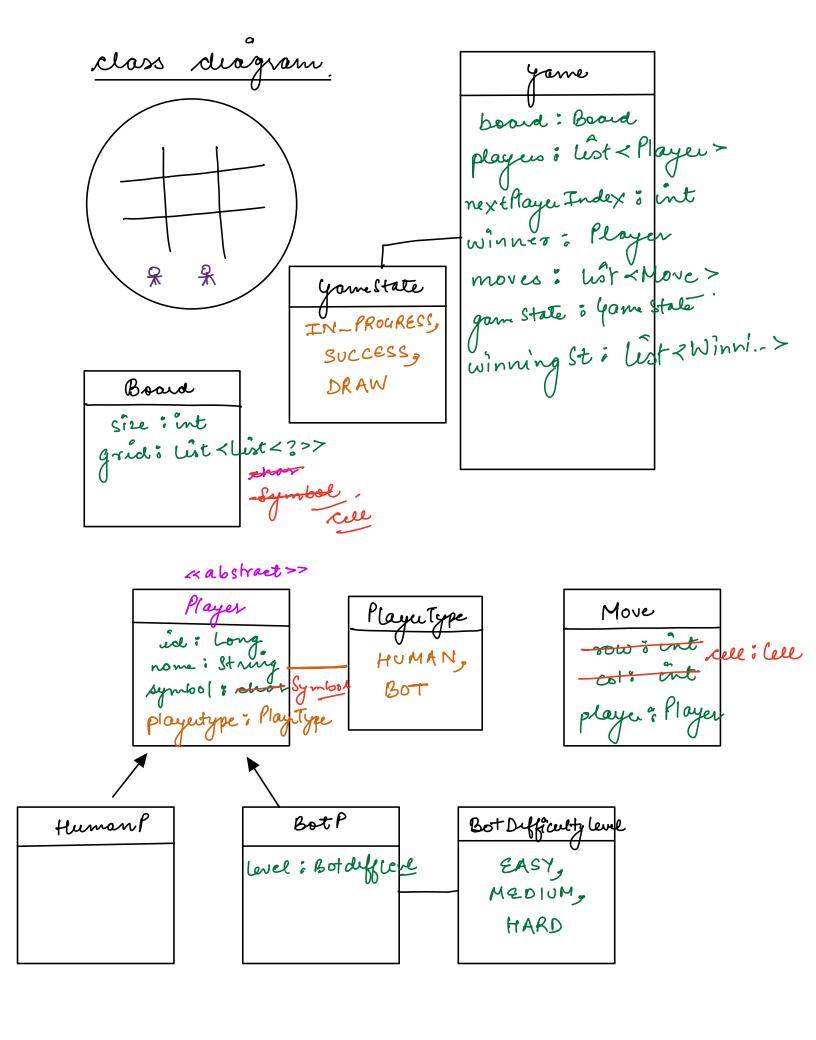
③ check winner  $O(n^3) \rightarrow O(1)$ 

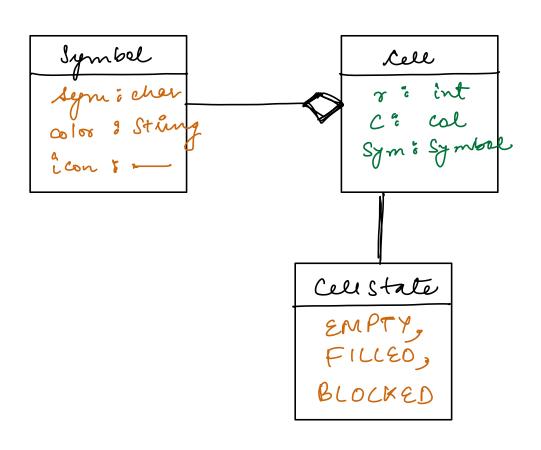


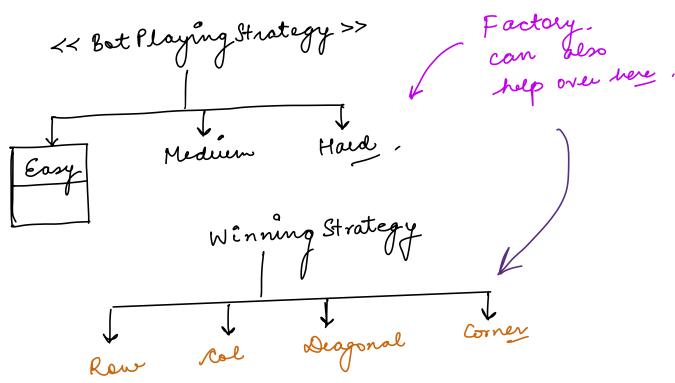
Stooc the complete detailed state

I of each more. game Soved game

Lood gave 







Break: 10:35pm.

checkwinner

o geter every move me mile check

if there is a winner or not

for all players p: bool check = true; for each row (r): check=true; T.C: O(n3) if (board [r][(]] =x)

cheek = folse;

break = if (check) winner = p;

> If Mohit has made the Cost move, con Radha vin? No No need of snecking for each player after every T. C: O(n2)

III I om running this loop to check 1 your Some symbol in the 1001 n 1 diagonal > O(n) of count ('x', row) == no of orla IV mainlain a DS count (symbol, row) == size > winner. count ( symbol , co1) == size > coon in tre col. arb. Q=01 a=p1 @=0 りこのユ りーダエ 6 50  $a = \beta I I 3$ b=0 a a a 0=0 6 6 = 6I Q=0 6 b=01

 $n^3 \rightarrow n^2 \rightarrow n \rightarrow O(1)$ 

int ronocount [row] [symbol] Harhmapplaymend.

Map 2 pair 2 row, symbol >, cut > m;

Implementation - 2 classes.

31 st July - wed \_\_ gnstruter. 2 nd Aug - Friday 90%.