

LLD

Design Snakes and Ladders

→ Only

Req Gathering

Class Diagram

Overview → ✓

Gathering Req → ✓

→ Game can be done

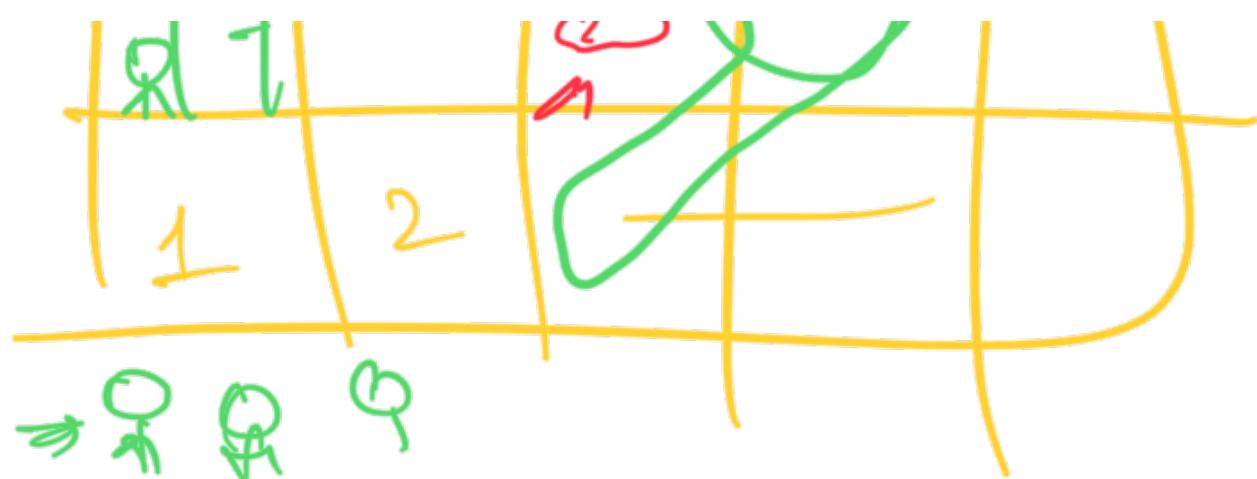
any # of players (> 2)

→ Only considering Human



Prayer :

- Board can be of any varying size decided by the client.



- Posⁿ of snakes and ladders are random and decided automatically at the start of the game
- # of snakes and ladders is also random
- the snakes & ladders are at valid posⁿ
 - they don't conflict with each other
- and Order is also random

→ Size of snakes and ladders -

→ In future diff other types of entities can also come up → lg frogs - taking from one place to other

→ A player enters the game at pos 1 only after they get a 1 or 6 =

→ Only one dice in a game.

→ The max # of dice is config

→ Current Scope

→ future Scope

→ Movable



T I - n

1 2 3 4 5 6 7

1 2 3 4 5 6 7

Get 6 - 6
→ 0

6

1 to 6

→ The same player should take a move
~~offer if they get {max No}~~

→ Game ends when all but one have reached

100.

all buttons have
reached (100)

size of
the block

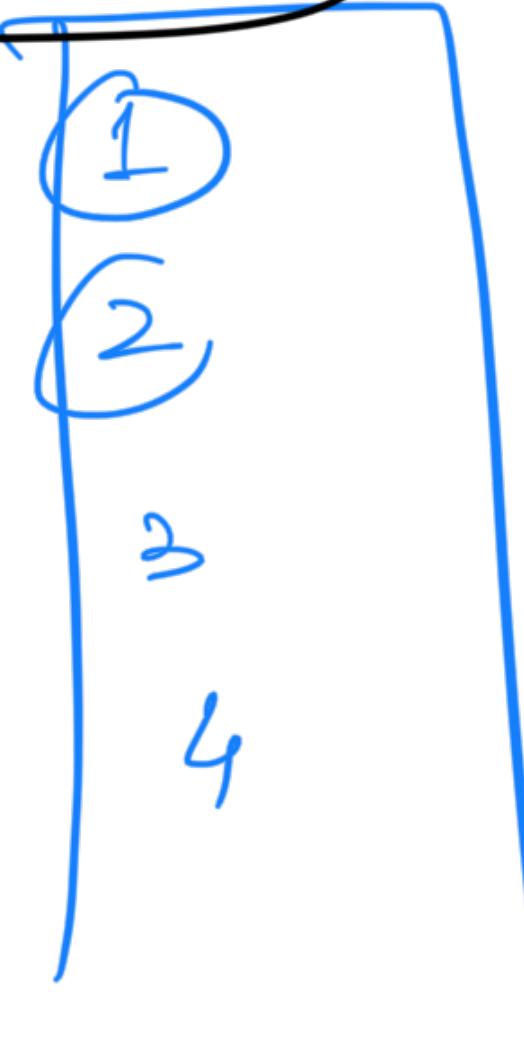
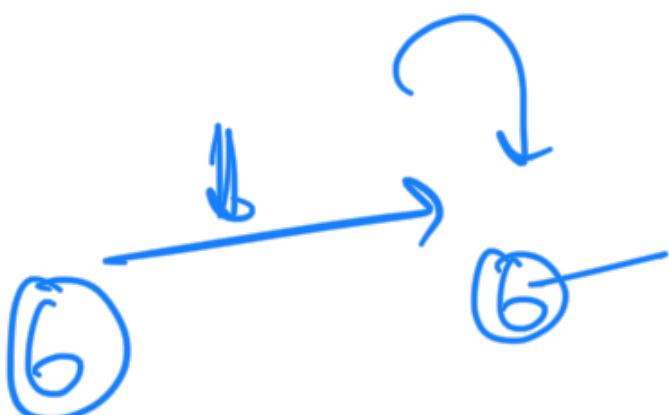
→ Winner is someone whose

→ Can't skip

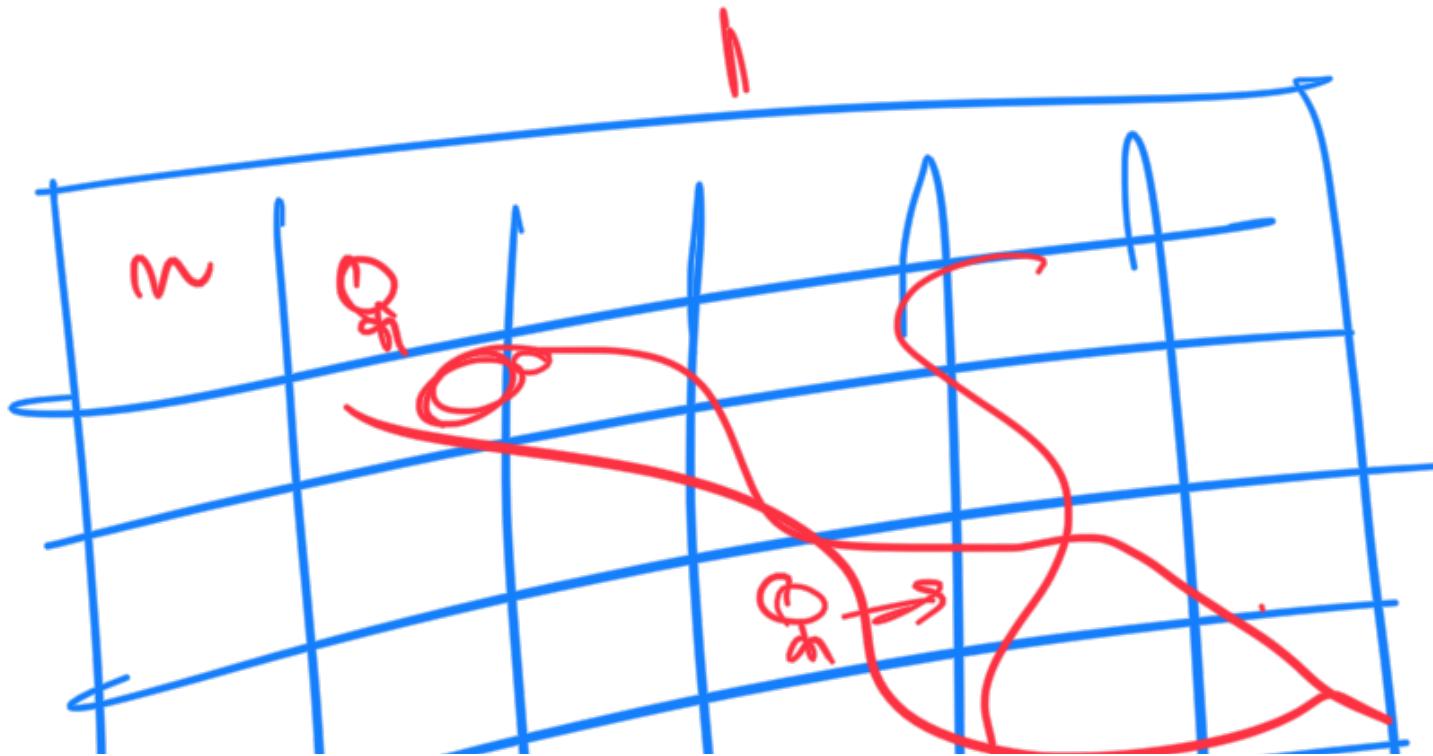
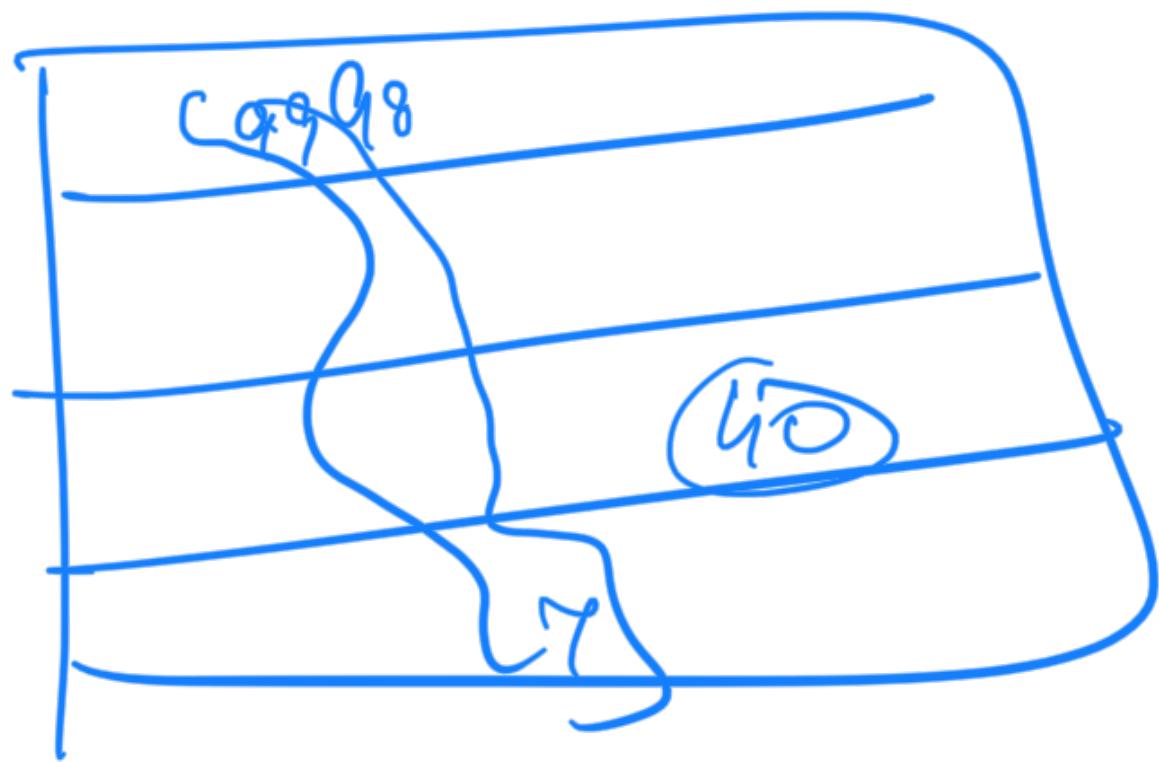
99 → 2 ⇒ invalid

→ For every game maintain the leaderboard
→ There can be multiple buttons per player

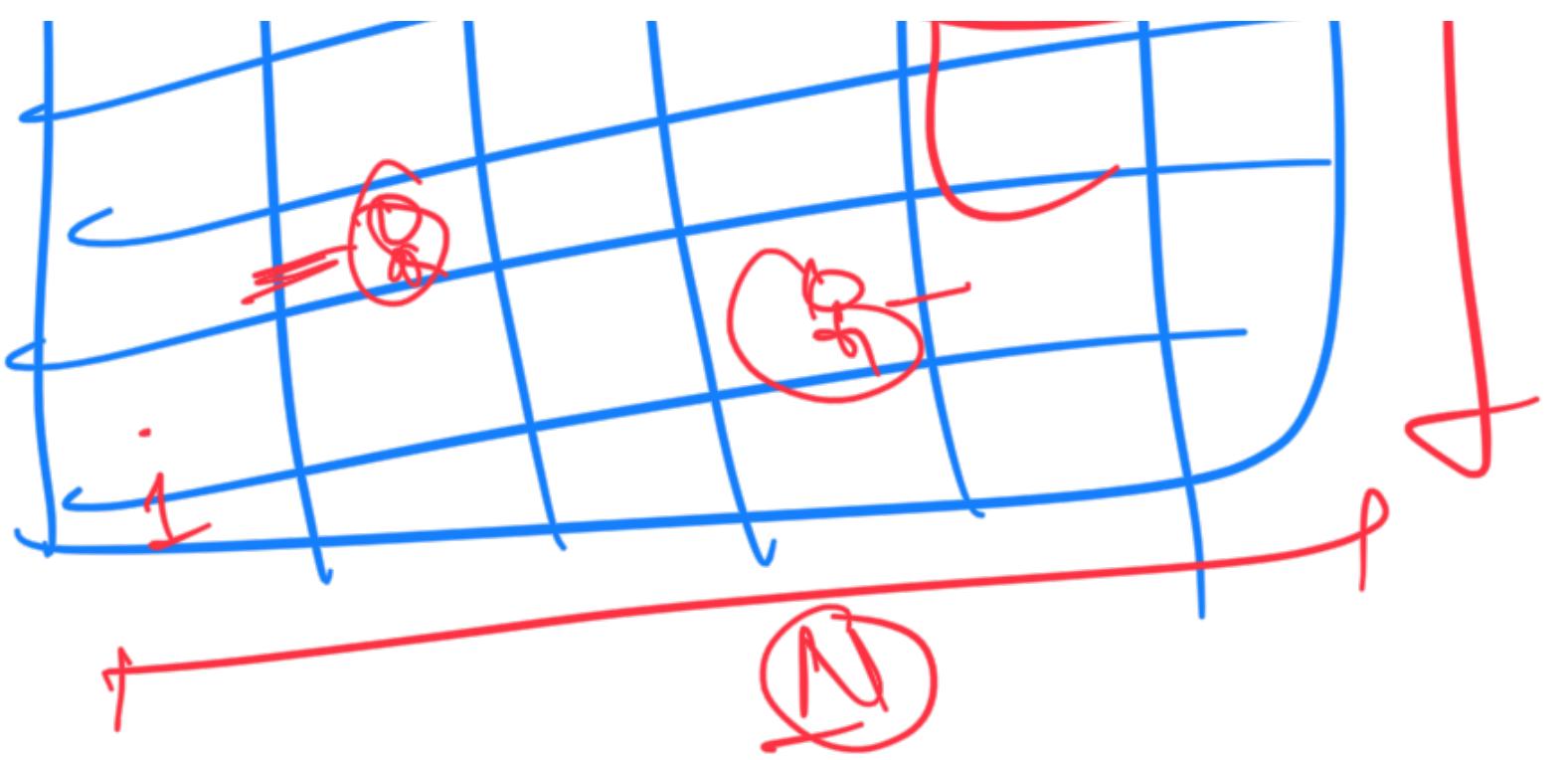
A B C D



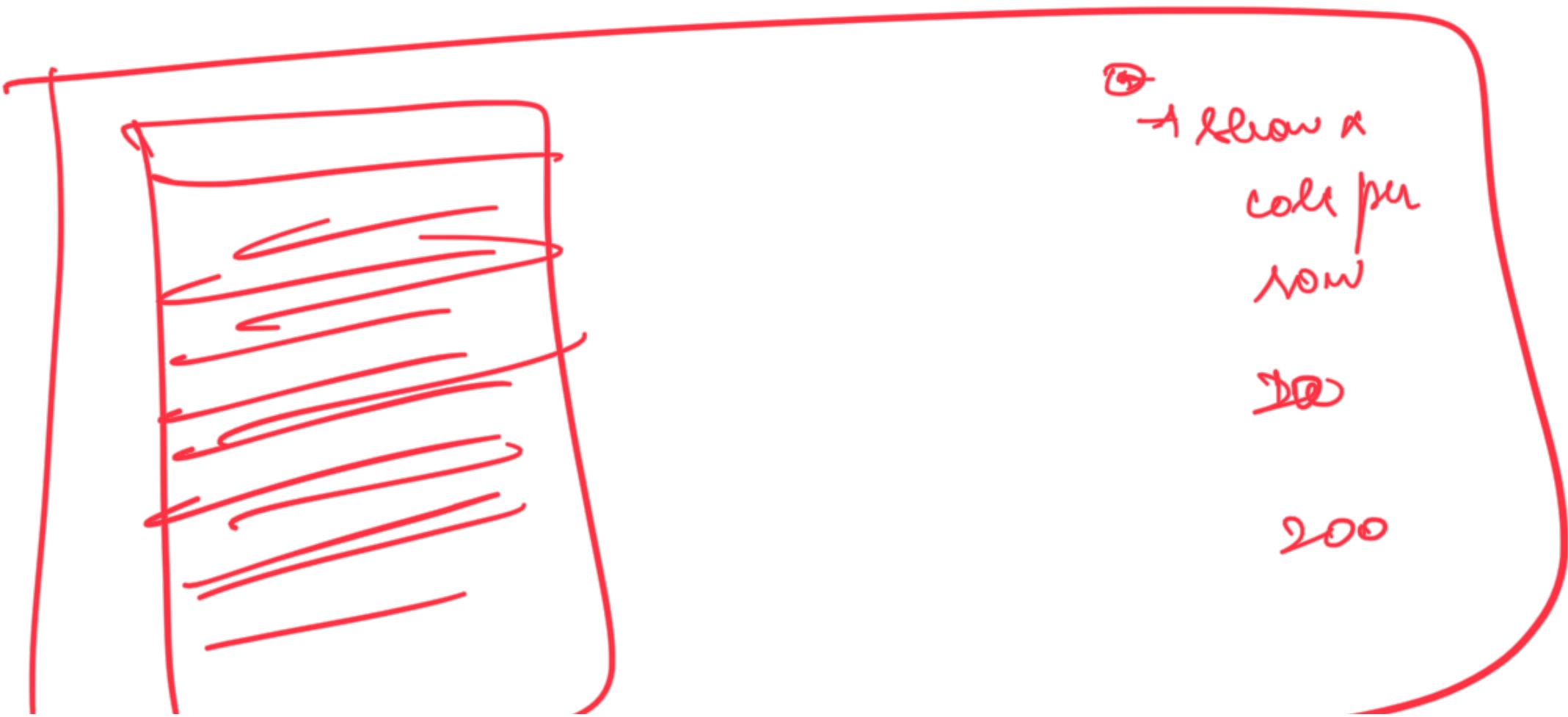
qs $\xrightarrow{0} (b)$



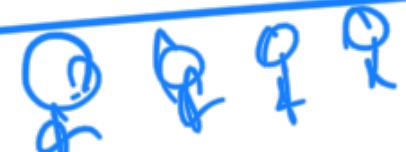
At
B
 \Rightarrow A person
wears only



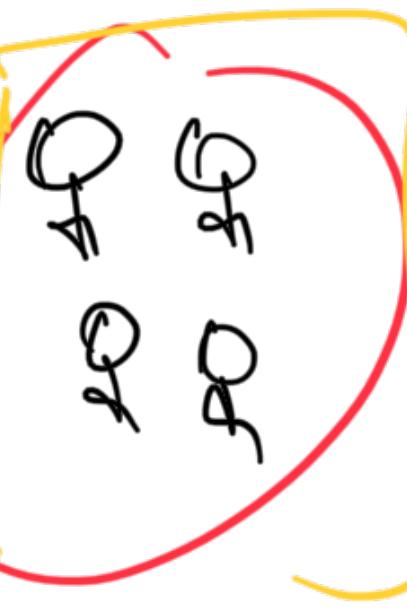
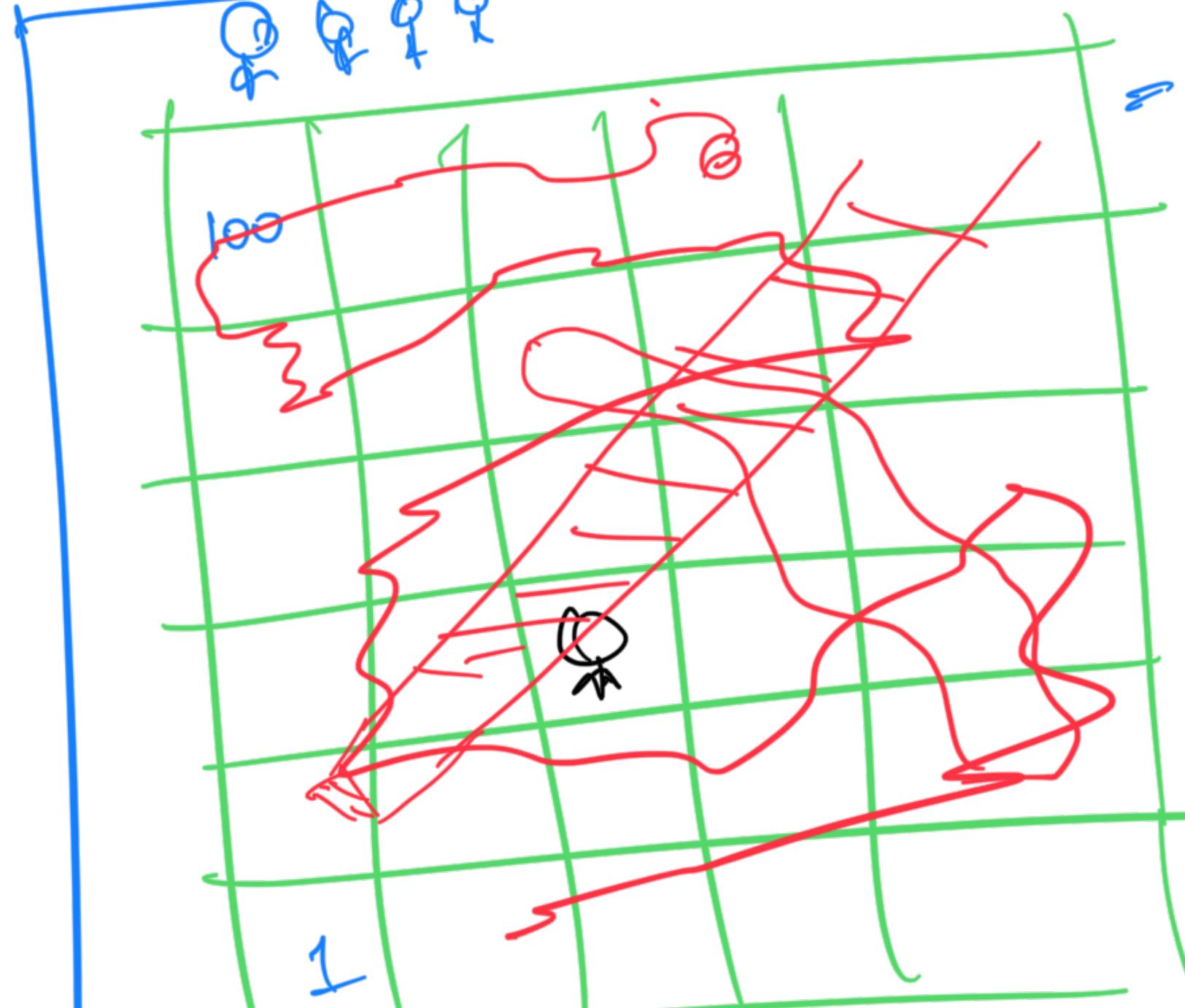
v^-
 when everyone
 reaches 100
 \Rightarrow



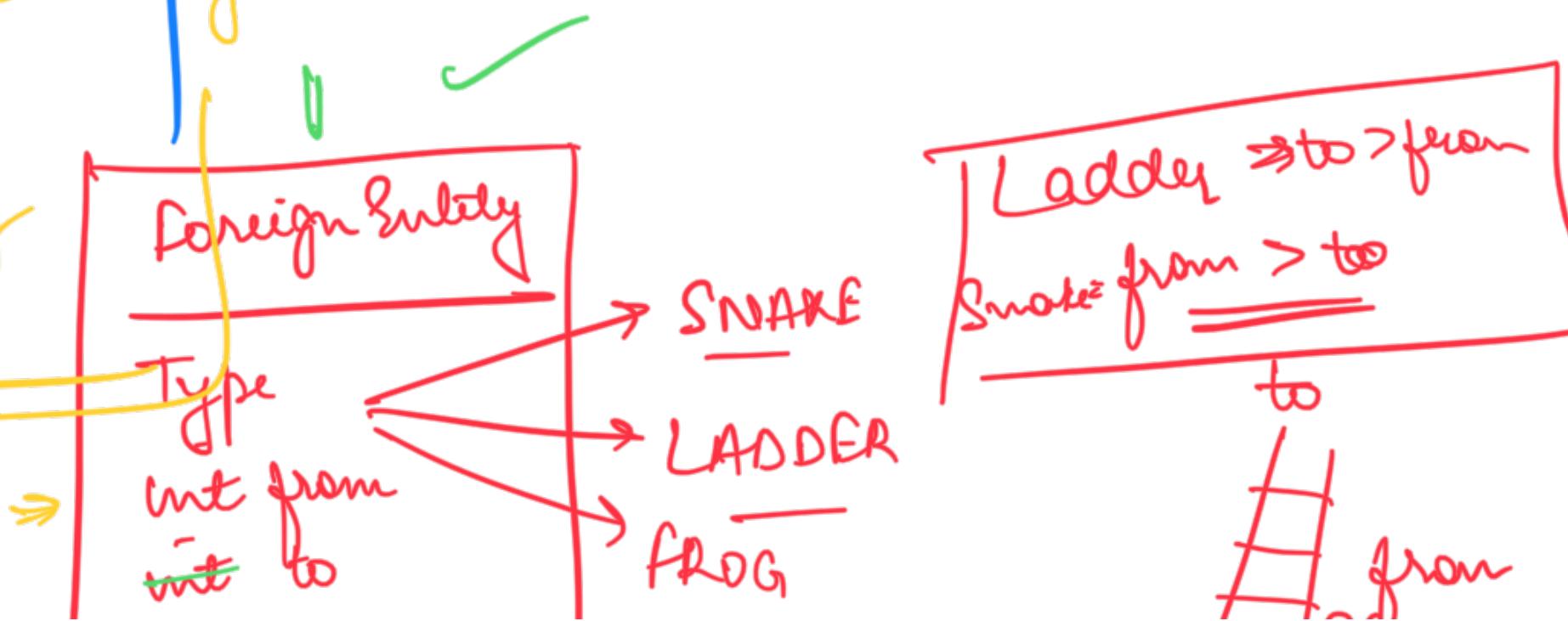
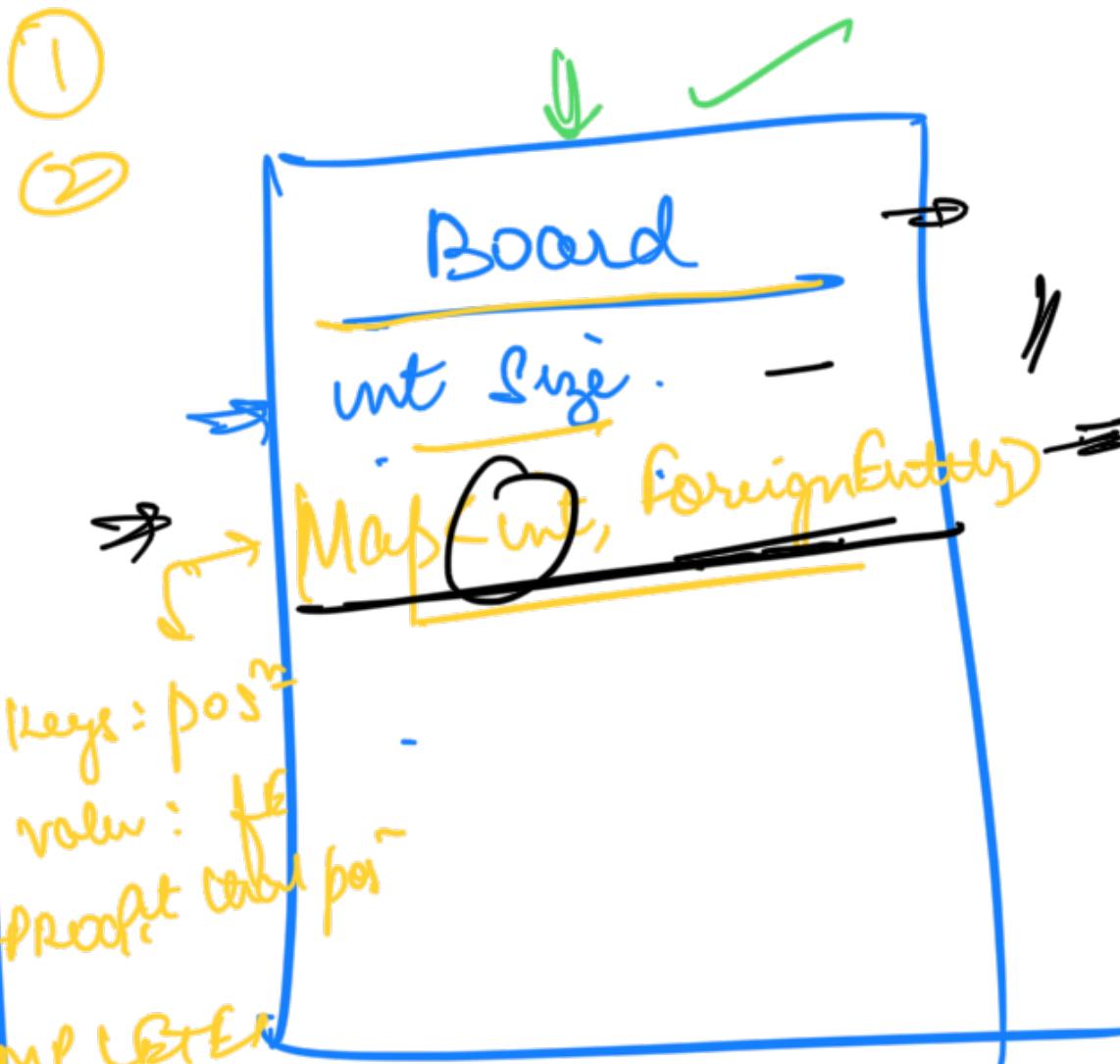
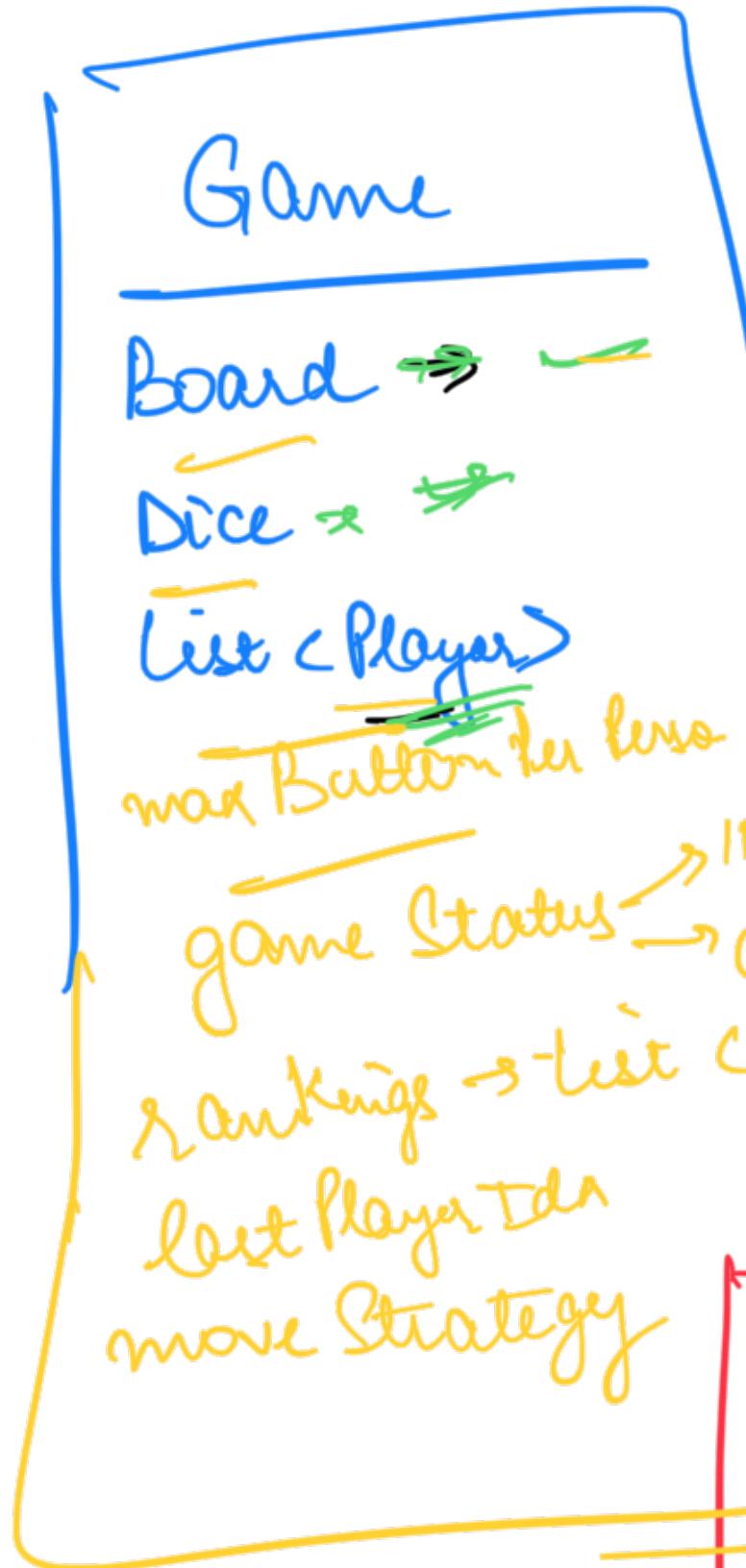
Gram

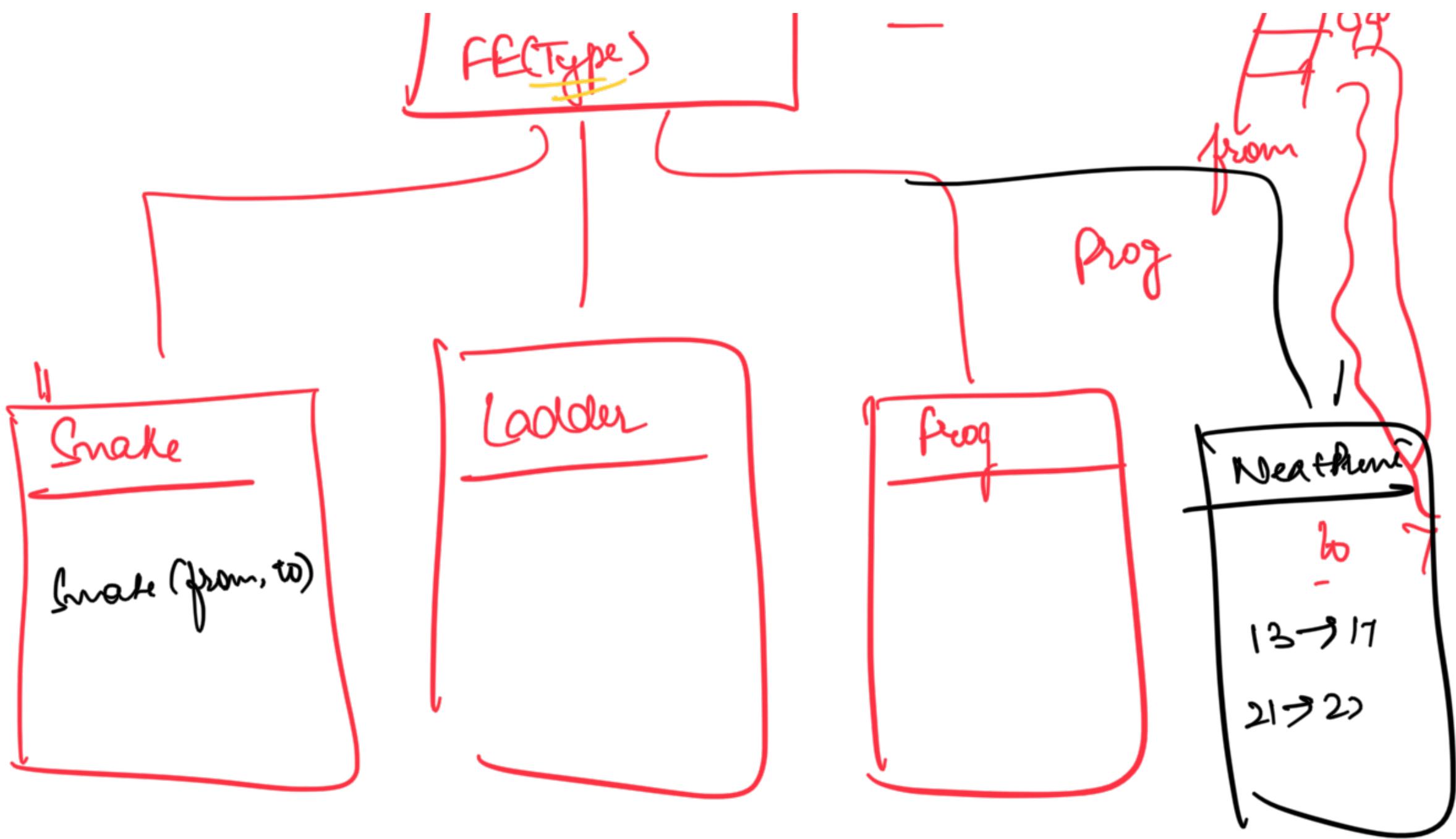


100



]



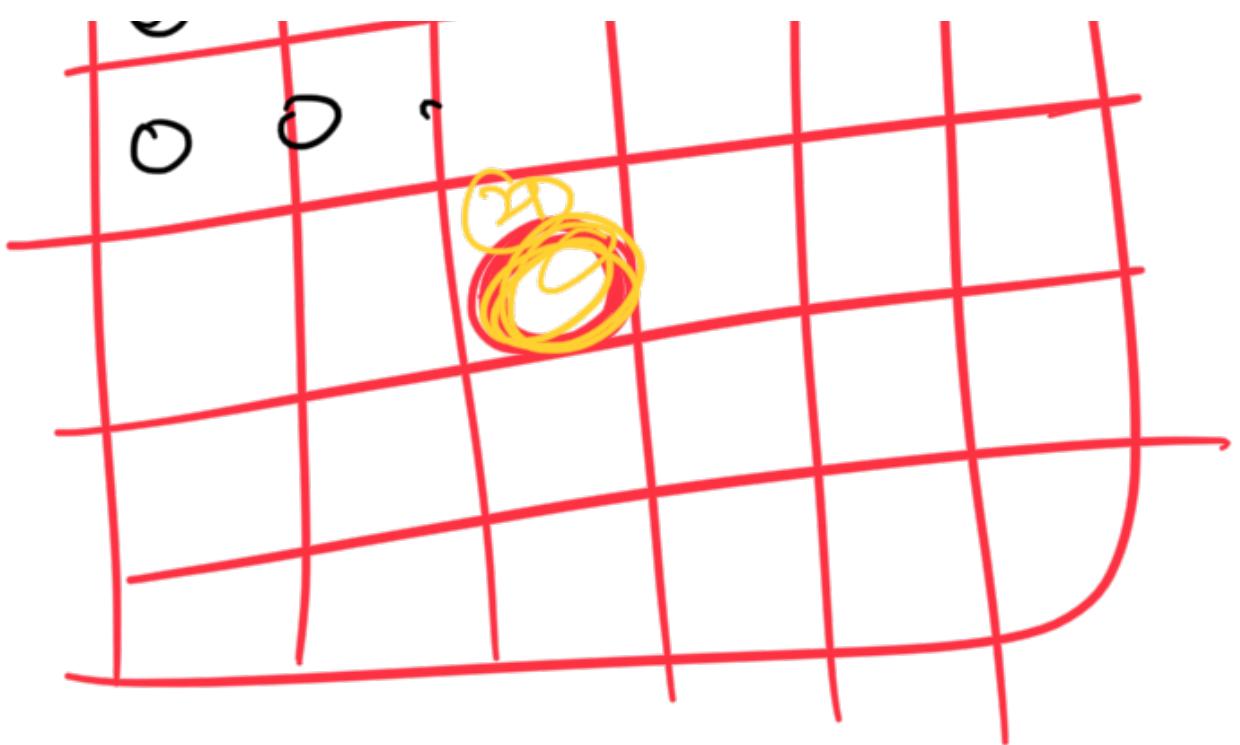


100

0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

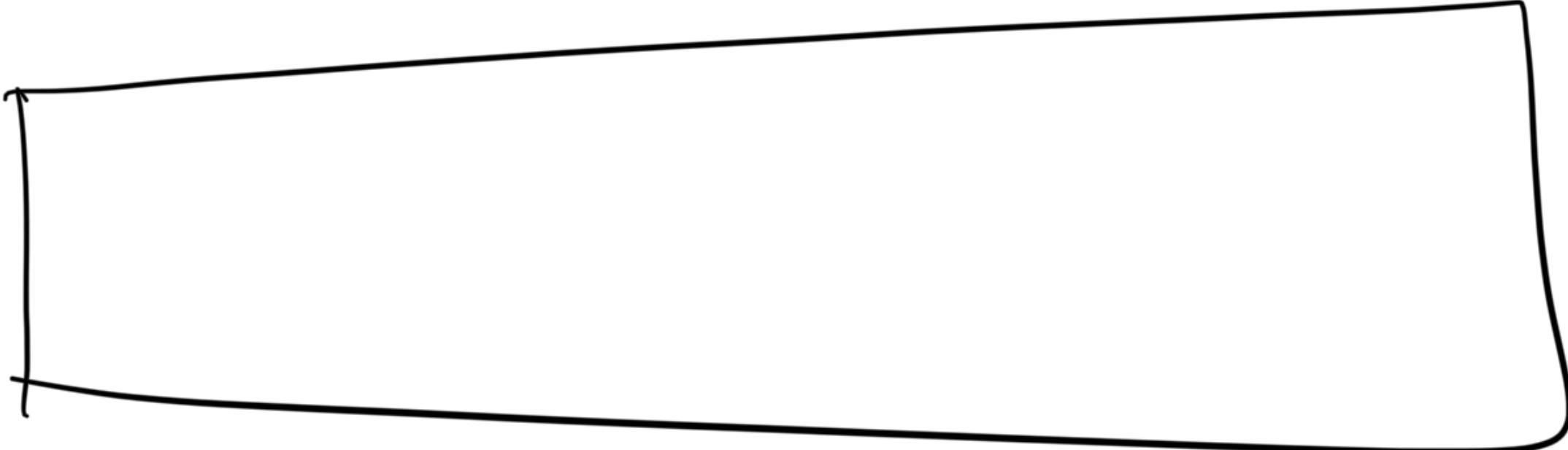
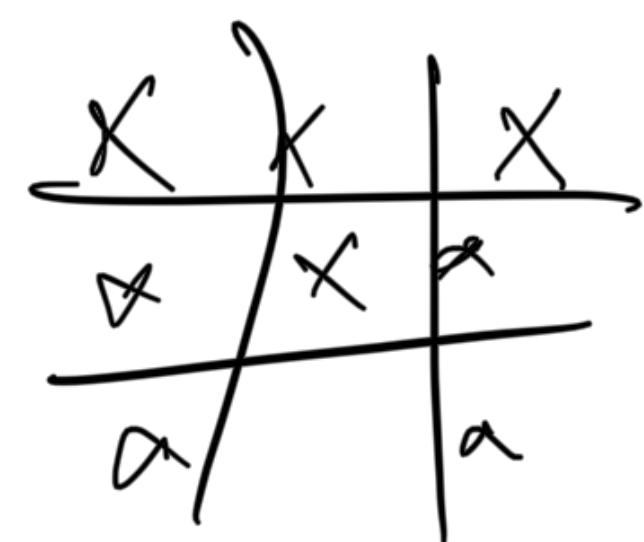
100

Cell C



Number
Foreign Entity

?



make more ~

Dice = 5

7

Dice

-max No

-roll() {

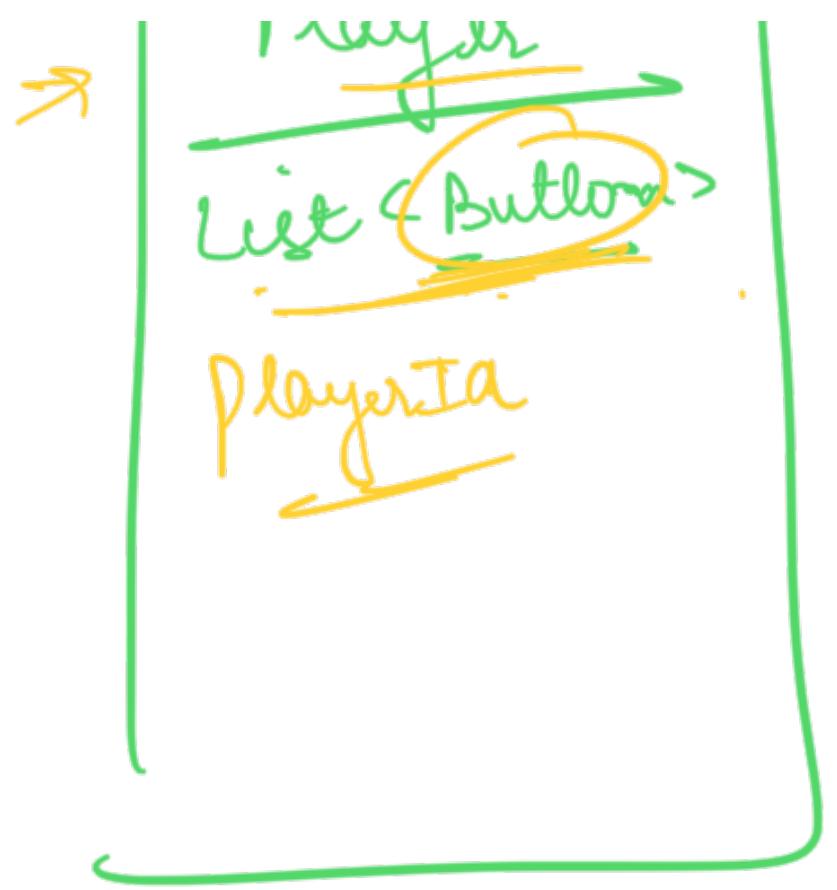
 - maxNo

}

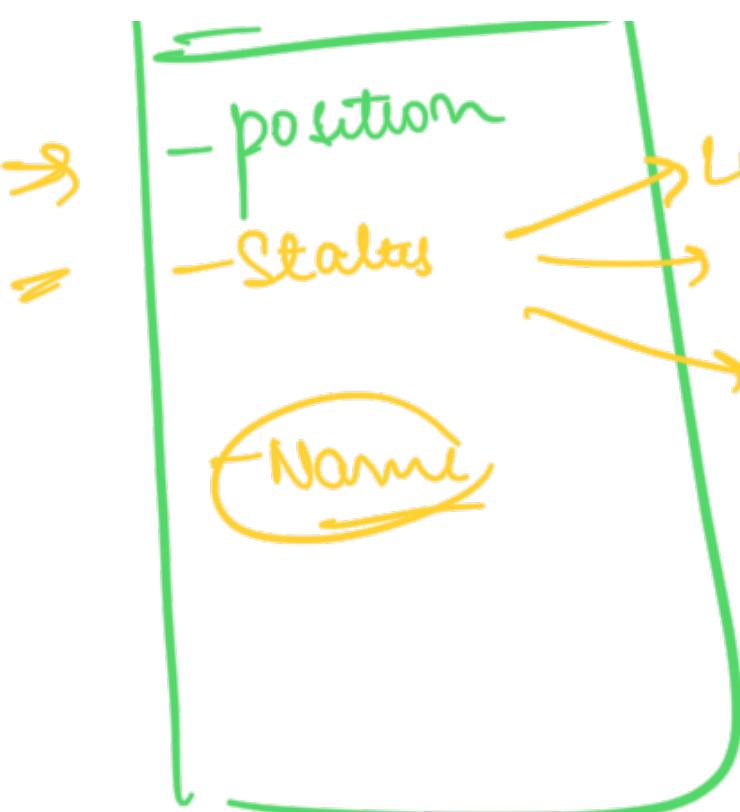
I Don...
↓

Button

-1



'Name'



Name-PI

Name-PL





P1-1

P1-2

↳ Button Beating Strategy
n. Next (number)

Can steer $\overrightarrow{v_{\text{start}}}$

return value = l or
value = $-l$

make Move()

if (button. status() == LOCKED)
 if (bastoutStrategy. canStart (value))
 button. status = UN-GRANDED
 button. pos = 1

)

b = 0

$\overbrace{\text{pos} - \text{pos} - \dots}$

$$97 \rightarrow 100$$

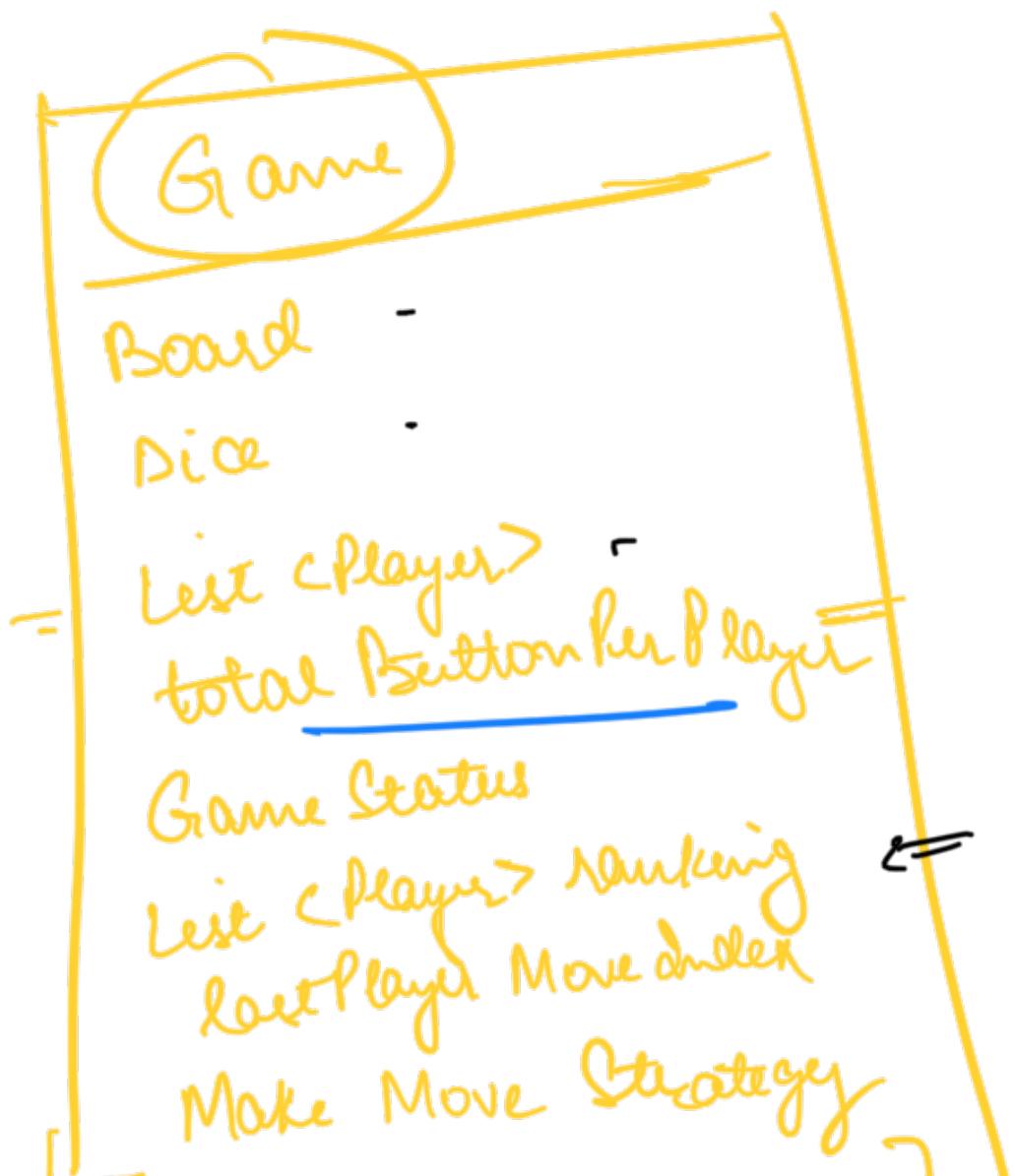
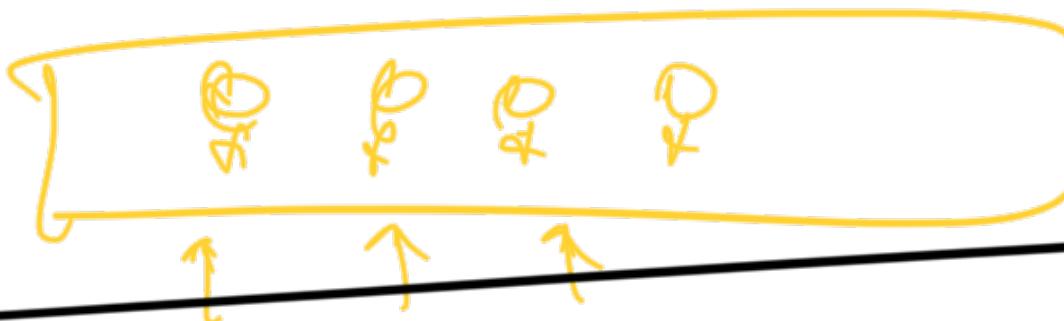
(99 → ↘)

A hand-drawn diagram illustrating a class hierarchy. At the top, there is a yellow box containing the numbers "97" and "100" with an arrow pointing from 97 to 100. Below this, a yellow bracket groups two classes: "PlayerMoveStrategy" and "move()". The "PlayerMoveStrategy" class has a yellow arrow pointing to it from the left. The "move()" method is shown as a yellow box with three parameters: "Button", "value", and "Board". A black arrow points from the "move()" box to the "Board" parameter. The entire diagram is enclosed in a yellow rectangular border.

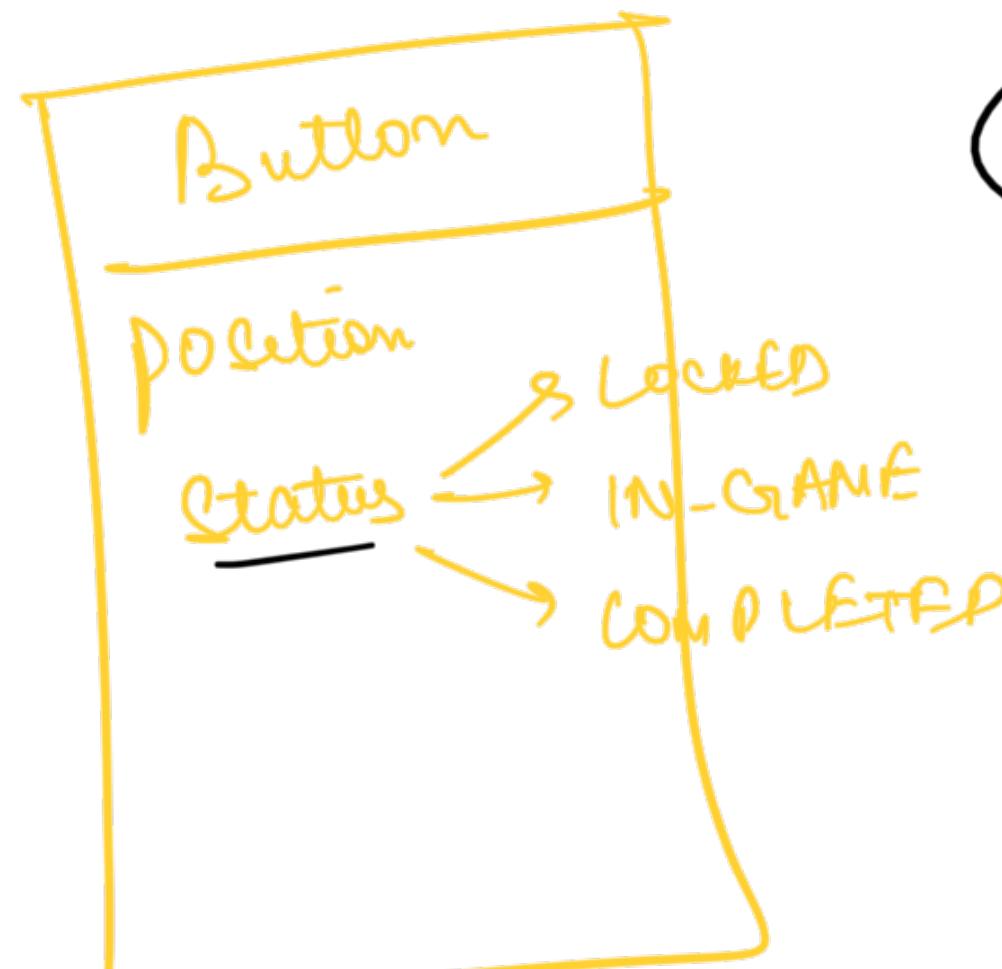
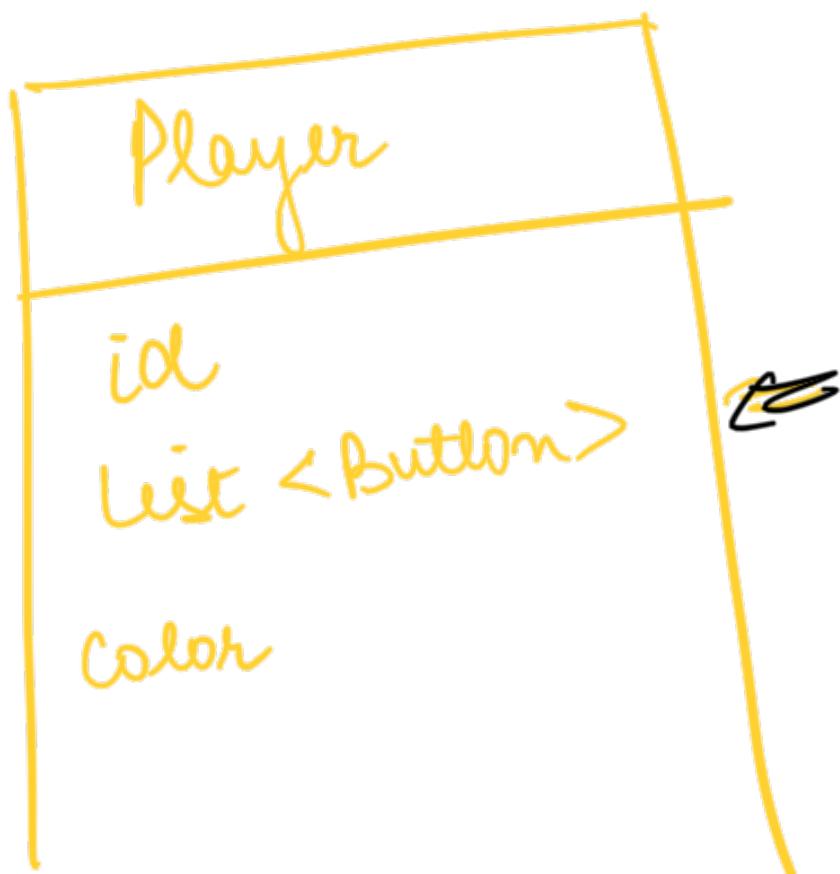
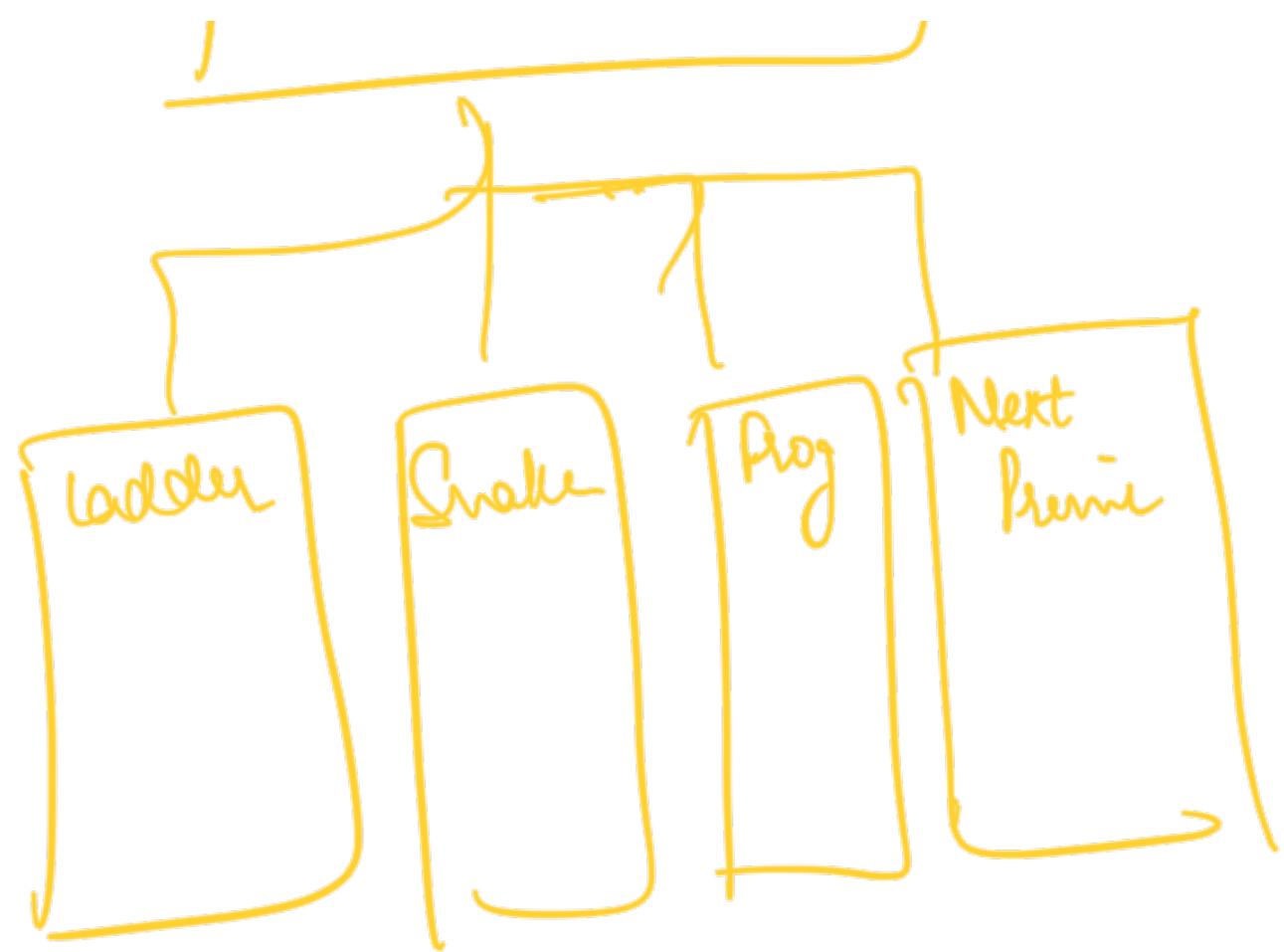
Normal Player Move Strategy

-
-
- // Check if it doesn't overflow
- // handle Snakes and ladder
- The status of the
- // update fuelbar

TTT



Coin Start Strategy



116

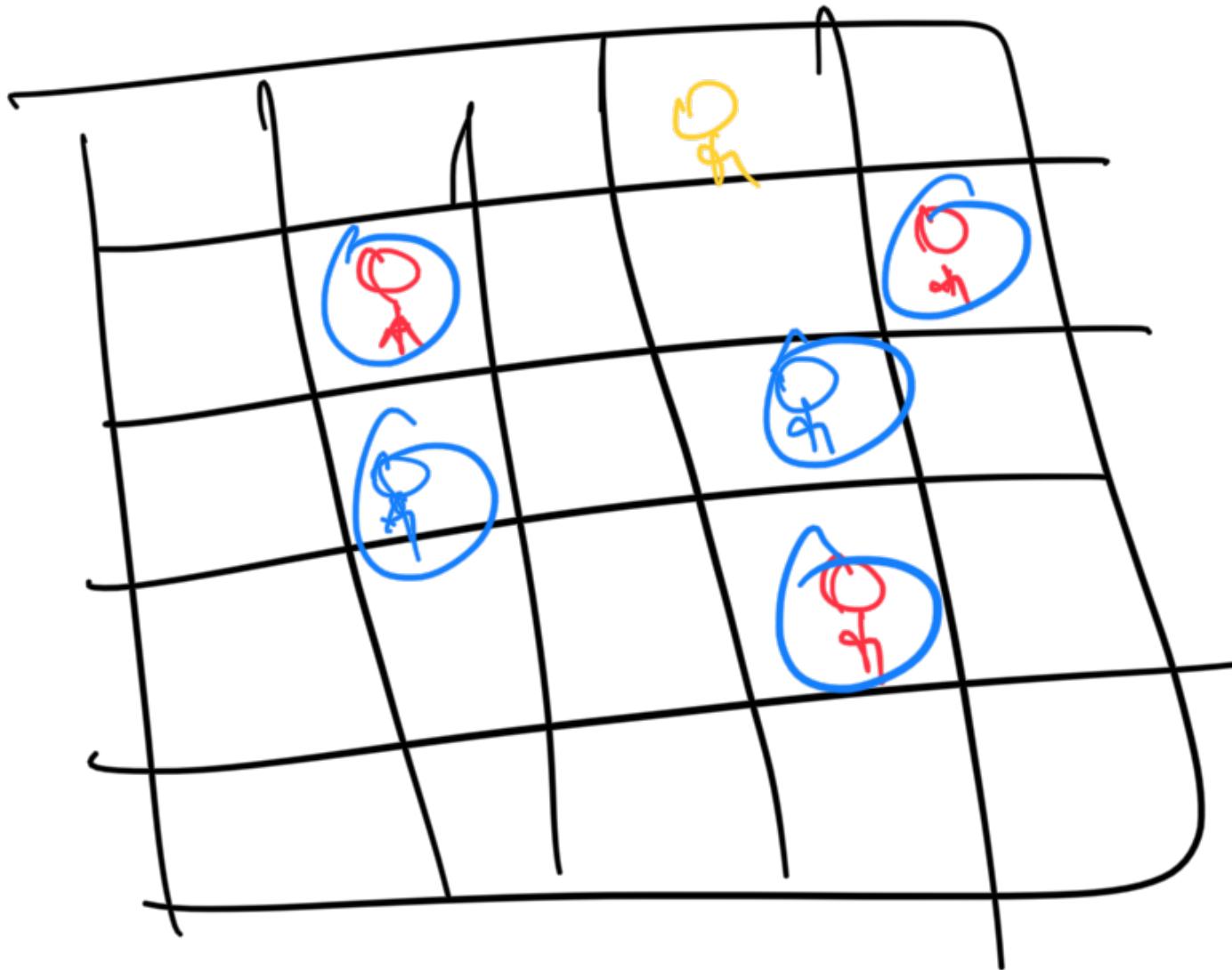
 +

```
<< HandleMoveStrategy >>
move(Button, value, Board)
```

// execution of movement
will happen here

```
<< UnlockDice Strategy>>
CanUnlock (value)
```

Next Sunday
→ My Code



Game =



low level design

Thurs / Fri

Game Simulation

HOME WORK

① Complete TTT

Game Controller

Game



②

(CD, code)
Watch CBL
Complemently implement
via learnings of
~~TTT~~

③

undo C) in CBL

④

~~G-BE6~~

go back to
prev step

31st July Code