```
* Ob780ab Merge branch 'bread'

| * e04cb65 bread 2
| * 2b0782f bread 1

* | 6d42d64 cookie 2

* | 0e8958e cookie 1
|/

* 6bd2eb4 commit 2

* a9a1ab1 commit 1
```

2. GitHub account name - ggomaeng

3a. Write out a bulleted feature list for the Hare and Hounds game you were asked to implement. Aim to be complete if high-level. (Yes this is generally an easy question because the homework gives a good description, but you need to pull out the complete key properties of the game as a bulleted list from that description.)

- There are two piece types and two players, the Hare and the Hound
- There are four pieces on the board, three hound pieces and one hare hound
- The game is turn based with the hound moving first when the other player joins.
- The player with the turn can only move one of his pieces per turn. A piece can only move one step (as in one block distance) at a time and it can only move to an empty location connected to its current location.
- Hounds cannot move backwards while the hare has no such restriction.
- The turns continue until one of the following (win) conditions occur:
 - The hare is trapped such that it has no valid move. The hounds win in this case.
 - The hare manages to sneak past the hounds. i.e. it moves to a square such that there are no hounds to left of it. In this case the hare wins.
 - The same board position occurs three times over the course of the game. In this case the hounds are considered to be stalling and the hare wins.
- The player can start a new game by clicking on the start button, and can share the game via a link
- The board is specified by x and y coordinates—the size of the board is 3 by 4, excluding every corner coordinates
- The service must be able to host multiple games at once
- The client can request 4 endpoints to either start a game, join a game, make a turn, get the current board state, and get the current game state
- a. 3b. Move validity checking is part of the "domain" that you need to have a firm understanding of. The assignment spec gives a high-level description; elaborate on this spec by writing a *use-case* for a hound move. All you know is the move was from x1,y1 to x2,y2 you have four numerical values. Along with the lecture notes the past project examples contain sample use-

cases. We are not going to be picky on the exact syntax, just write something that gives a good step-by-step high-level description of the process.

- 1. Hound requests a move
- 2. Check if either "from" coordinate or "to" coordinate exist
 - a. If either doesn't exist, throw an Error
- 3. Check if the requested "from" coordinate contains the hound piece
 - a. If it doesn't exist, throw an Error
- 4. Check if the requested "to" coordinate is occupied by any piece
 - a. It it is occupied, throw an Error
- 5. Check if hound is trying to move backward
 - a. If trying to move backward, throw an Error
- 6. Check if the "from" coordinate and "to" coordinate are connected
 - a. If it's not connected, throw an Error
- 7. Check if the hound is trying to move "1" distance or step
 - a. If it tried to move more than 1 step, throw an error
- 8. If all of these steps passed, complete the hound move
 - a. If the hare is trapped
 - a. End the game. Hound wins.
 - b. If the same board position occurs three times over the course of the game, hounds are considered to be stalling
 - a. End the game. Hare wins.
 - c. Else, it's now Hare's turn