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GROUP: 11
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Central concepts:
       -Function that prints the board
                   1 2 3
              1 |X|O|-|
                     Dash is empty, x is player, o is cpu
       -Set up the board (empty)
              Board is a 2d array (7 cols x 6 rows)
       -Who goes first
              Coin toss
       -ask for player piece (X or O)
       -Process playermove
              Pass col
       -Process cpu move
              Places a piece on the board
       -Win lose draw (relative to the player)
              Win
                     4 Xs vertically, horizontally, diagonally
              Lose
                     4 Os vertically, horizontally, diagonally
              Draw
                     Neither 4 Xs or 4 Os and board is full
Implementation:
       Void setupBoard()
              // sets up the board for a new game
              // player can choose custom char (X or O)
       Void printBoard()
              // displays the game board NICELY
              // print out with coord grid labels
```

```
Int checkBoard(char player)
       // checks the board for a win loss or draw
               Return -1 for loss
               Return 0 for draw
               Return 1 for win
Void playerMove(char player)
       // takes in user input
       // verify input, within scope and col not full
       // call fillBoard with it
Void cpuMove(char player)
       // randomly places a piece in a randomly chosen col
       // verifies if random is okay, else tries again
               // if time
                      // if cpu has 3 in a row, go for the winning move
Void fillBoard(int col, char input);
       // places piece on board on col
       // uses 'gravity' to determine where in col
```