

# Submission Worksheet

## Submission Data

**Course:** IT114-003-F2025

**Assignment:** IT114 Milestone 2 - RPS

**Student:** Bryan S. (bs768)

**Status:** Submitted | **Worksheet Progress:** 100%

**Potential Grade:** 10.00/10.00 (100.00%)

**Received Grade:** 0.00/10.00 (0.00%)

**Started:** 11/24/2025 2:12:35 PM

**Updated:** 11/24/2025 8:02:29 PM

**Grading Link:** <https://learn.ethereallab.app/assignment/v3/IT114-003-F2025/it114-milestone-2-rps/grading/bs768>

**View Link:** <https://learn.ethereallab.app/assignment/v3/IT114-003-F2025/it114-milestone-2-rps/view/bs768>

## Instructions

1. Refer to Milestone2 of [Rock Paper Scissors](#)
  1. Complete the features
2. Ensure all code snippets include your ucid, date, and a brief description of what the code does
3. Switch to the Milestone2 branch
  1. `git checkout Milestone2`
  2. `git pull origin Milestone2`
4. Fill out the below worksheet as you test/demo with 3+ clients in the same session
5. Once finished, click "Submit and Export"
6. Locally add the generated PDF to a folder of your choosing inside your repository folder and move it to Github
  1. `git add .`
  2. ``git commit -m "adding PDF"`
  3. `git push origin Milestone2`
  4. On Github merge the pull request from `Milestone2` to `main`
7. Upload the same PDF to Canvas
8. Sync Local
  1. `git checkout main`
  2. `git pull origin main`

## Section #1: ( 1 pt.) Payloads

Progress: 100%

### ☰ Task #1 ( 1 pt.) - Show Payload classes and subclasses

Progress: 100%

#### Details:

- Reqs from the document
  - Provided Payload for applicable items that only need client id, message, and type
  - PointsPayload for syncing points of players

- Each payload will be presented by debug output (i.e. properly override the `toString()` method like the lesson examples)

## Part 1:

Progress: 100%

### Details:

- Show the code related to your payloads (`Payload`, `PointsPayload`, and any new ones added)
- Each payload should have an overridden `toString()` method showing its internal data

```
52 //bs768, 11/24/2025, toString method for Payload
53 @Override
54 public String toString() {
55     return String.format("Payload[%s] Client Id [%s] Message: [%s]", getPayloadType(), getClientId(), getMessage());
56 }
57 }
```

Payload.java

```
21 //bs768, 11/24/2025, toString method for PointsPayload
22 @Override
23 public String toString() {
24     return String.format("PointsPayload[ClientId=%d, Points=%d]", getClientId(), points);
25 }
26 }
27 Ctrl+I for Command, Ctrl+L for Agent
```

PointsPayload.java

```
public class PointsPayload extends Payload {
    private int points;

    public PointsPayload(long clientId, int points) {
        setClientId(clientId);
        setPoints(points);
        setPayloadType(PayloadType.POINTS_UPDATE);
        setMessage("points updated");
    }

    public int getPoints() {
        return points;
    }

    public void setPoints(int points) {
        this.points = points;
    }

    //bs768, 11/24/2025, toString method for PointsPayload
    @Override
    public String toString() {
        return String.format("PointsPayload[ClientId %d, Points %d]", getClientId(),
```

PointsPayload.java



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## Part 2:

Progress: 100%

**Details:**

- Briefly explain the purpose of each payload shown in the screenshots and their properties

**Your Response:**

Payload.java - Base payload class for general communication containing client ID, message, and payload type. PointsPayload.java - Specialized payload for synchronizing player points across all clients.



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## Section #2: ( 4 pts.) Lifecycle Events

Progress: 100%

### ≡ Task #1 ( 0.80 pts.) - GameRoom Client Add/Remove

Progress: 100%

**Part 1:**

Progress: 100%

**Details:**

- Show the `onClientAdded()` code
- Show the `onClientRemoved()` code

```
//bs768, 11/24/2025, addClient method for Room
protected synchronized void addClient(ServerThread client) {
    if (!isRunning) { // block action if Room isn't running
        return;
    }
    if (clientsInRoom.containsKey(client.getClientId())) {
        info("Attempting to add a client that already exists in the room");
        return;
    }
    clientsInRoom.put(client.getClientId(), client);
    client.setCurrentRoom(this);
    client.sendResetUserList();
    syncExistingClients(client);
    // notify clients of someone joining
    joinStatusRelay(client, true);
}
```

addClient()

```
//bs768, 11/24/2025, removeClient method for Room
protected synchronized void removeClient(ServerThread client) {
    if (!isRunning) { // block action if Room isn't running
        return;
    }
    if (!clientsInRoom.containsKey(client.getClientId())) {
        info("Attempting to remove a client that doesn't exist in the room");
        return;
    }
    ServerThread removedClient = clientsInRoom.get(client.getClientId());
    if (removedClient != null) {
        // notify clients of someone joining
        joinStatusRelay(removedClient, false);
        clientsInRoom.remove(client.getClientId());
        readyPlayers.remove(client.getClientId());
        autoCleanup();
    }
}
```

removeClient()



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## Part 2:

Progress: 100%

### Details:

- Briefly note the actions that happen in `onClientAdded()` (app data should at least be synchronized to the joining user)
- Briefly note the actions that happen in `onClientRemoved()` (at least should handle logic for an empty session)

### Your Response:

Adds: Checks if room is running and client doesn't already exist  
Adds client to clientsInRoom map  
Sets the current room reference on the client  
Clears the joining client's user list  
Synchronizes all existing clients' data  
Notifies all clients that a new player has joined

Removes: Checks if room is running and client exists  
Notifies all remaining clients that a player has left  
Removes client from clientsInRoom map  
Removes client from readyPlayers set  
Checks if room is empty



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## Task #2 ( 0.80 pts.) - GameRoom Session Start

Progress: 100%

### Details:

- Reqs from document
  - First round is triggered
- Reset/set initial state

## Part 1:

Progress: 100%

### Details:

- Show the snippet of `onSessionStart()`

```
//bs768, 11/24/2025, sessionStart method for Room
private void sessionStart() {
    isSessionActive = true;
    relay(null, "All players ready! Session starting.");
    // Reset all players
    for (ServerThread client : clientsInRoom.values()) {
        client.setPoints(0);
        client.setEliminated(false);
        client.setChoice(null);
        syncPlayerPoints(client);
    }
}
```

```
        roundStart();  
    }  
  
    sessionStart()
```



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## Part 2:

Progress: 100%

### Details:

- Briefly explain the logic that occurs here (i.e., setting up initial session state for your project) and next lifecycle trigger

### Your Response:

Sets isSessionActive = true to indicate game is in progress Sends start message to all players Sets all players points to 0 Marks all players as not eliminated Clears all player choices Calls roundStart() to begin the first round



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## Task #3 ( 0.80 pts.) - GameRoom Round Start

Progress: 100%

### Details:

- Reqs from Document
  - Initialize remaining Players' choices to null (not set)
  - Set Phase to "choosing"
  - GameRoom round timer begins

## Part 1:

Progress: 100%

### Details:

- Show the snippet of `onRoundStart()`

```
//bs768, 11/24/2025, roundstart method for Room  
private void roundstart() {  
    if (!isSessionActive)  
        return;  
  
    // Reset choices for active players  
    for (ServerThread client : clientsInRoom.values()) {  
        if (!client.isEliminated()) {  
            client.setchoice(null);  
        }  
    }  
  
    Payload p = new Payload();  
    p.setPayloadType(PayloadType.ROUND_START);  
    p.setMessage("Round Started! Type /pick (r|p|x)");  
    broadcast(p);  
}
```

roundStart()



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## Part 2:

Progress: 100%

### Details:

- Briefly explain the logic that occurs here (i.e., setting up the round for your project)

### Your Response:

Verifies session is active before proceeding Makes all non-eliminated players choices to null  
Sends ROUND\_START payload with instructions startRoundTimer() starts a 30 second timer



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## Task #4 ( 0.80 pts.) - GameRoom Round End

Progress: 100%

### Details:

- Reqs from Document
  - Condition 1:** Round ends when round timer expires
  - Condition 2:** Round ends when all active Players have made a choice
  - All Players who are not eliminated and haven't made a choice will be marked as eliminated
- Process Battles:
  - Round-robin battles of eligible Players (i.e., Player 1 vs Player 2 vs Player 3 vs Player 1)
  - Determine if a Player loses if they lose the "attack" or if they lose the "defend" (since each Player has two battles each round)
    - Give a point to the winning Player
    - Points will be stored on the Player/User object
    - Sync the points value of the Player to all Clients
  - Relay a message stating the Players that competed, their choices, and the result of the battle
  - Losers get marked as eliminated (Eliminated Players stay as spectators but are skipped for choices and for win checks)
  - Count the number of non-eliminated Players
    - If one, this is your winner (onSessionEnd())
    - If zero, it was a tie (onSessionEnd())
    - If more than one, do another round (onRoundStart())

## Part 1:

**Details:**

- Show the snippet of `onRoundEnd()`

```

    // ...
    private void onRoundEnd() {
        synchronized (this) {
            roundActive = false;
            if (roundTimer != null) {
                roundTimer.cancel();
            }
            if (observerThread != null && !observerThread.isAlive()) {
                observerThread = null;
                roundTimer = null;
            }
        }
        processResults();
    }

    private void processResults() {
        lastServerThreadsRemaining = clientRoomValues.size();
        lastClientThreadsRemaining = clientRoomValues.size();
        if (clientPlayers.size() < 2) {
            clientLeftAndIsInGame = true;
        }
    }

    final int[] lastResults = new Integer[clientRoomValues.size()];
    lastServerThreads = new ArrayList();
}

```

**Part 1**

```

    // ...
    private void checkRoundEnd() {
        if (lastClientThreadsRemaining == 0 && lastServerThreadsRemaining == 0) {
            clientLeftAndIsInGame = true;
            lastClientThreadsRemaining = 0;
            lastServerThreadsRemaining = 0;
        }
    }

    private void compareChoices(String c1, String c2) {
        if (c1.equals(c2)) {
            return 0;
        }
        if (c1.equals("P") && c2.equals("R")) {
            return 1;
        }
        if (c1.equals("R") && c2.equals("P")) {
            return 2;
        }
        if (c1.equals("P") && c2.equals("S")) {
            return 3;
        }
        if (c1.equals("S") && c2.equals("P")) {
            return 4;
        }
        if (c1.equals("R") && c2.equals("S")) {
            return 5;
        }
        if (c1.equals("S") && c2.equals("R")) {
            return 6;
        }
        return -1;
    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        textView = findViewById(R.id.textView);
        textView.setText("Hello World!");
    }
}

```

**Part2**

```

    // ...
    private int compareChoices(String c1, String c2) {
        if (c1.equals(c2)) {
            return 0;
        }
        if (c1.equals("P") && c2.equals("R")) {
            return 1;
        }
        if (c1.equals("R") && c2.equals("P")) {
            return 2;
        }
        if (c1.equals("P") && c2.equals("S")) {
            return 3;
        }
        if (c1.equals("S") && c2.equals("P")) {
            return 4;
        }
        if (c1.equals("R") && c2.equals("S")) {
            return 5;
        }
        if (c1.equals("S") && c2.equals("R")) {
            return 6;
        }
        return -1;
    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        textView = findViewById(R.id.textView);
        textView.setText("Hello World!");
    }

    private void checkRoundEnd() {
        lastServerThreadsRemaining = clientRoomValues.size();
        lastClientThreadsRemaining = clientRoomValues.size();
        if (clientLeftAndIsInGame) {
            clientLeftAndIsInGame = false;
            collect(Collectors.toList());
        }
        if (lastClientThreadsRemaining == 0 && lastServerThreadsRemaining == 0) {
            clientLeftAndIsInGame = true;
            lastClientThreadsRemaining = 0;
            lastServerThreadsRemaining = 0;
        }
    }
}

```

**Part3**

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**Part 2:****Details:**

- Briefly explain the logic that occurs here (i.e., cleanup, end checks, and next lifecycle events)

Your Response:

Sets roundActive = false to prevent duplicate processing Cancels the round timer if still active Marks any active player who didn't make a choice as eliminated Calls processBattles() to determine round outcomes Each player battles their neighbor Uses compareChoices() to determine winner Winner receives 1 point updatePlayerPoints() automatically syncs points to all clients Losers are marked as eliminated Battle results relayed to all clients Calls checkWinCondition() to determine if game continues



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## ≡ Task #5 ( 0.80 pts.) - GameRoom Session End

Progress: 100%

### Details:

- Reqs from Document
  - **Condition 1:** Session ends when one Player remains (they win)
  - **Condition 2:** Session ends when no Players remain (this is a tie)
  - Send the final scoreboard to all clients sorted by highest points to lowest (include a game over message)
  - Reset the player data for each client server-side and client-side (do not disconnect them or move them to the lobby)
  - A new ready check will be required to start a new session

## ❑ Part 1:

Progress: 100%

### Details:

- Show the snippet of `onSessionEnd()`

```
    public void onSessionEnd() {
        // Set roundActive = false to prevent duplicate processing
        roundActive = false;

        // Cancel the round timer if still active
        if (roundTimer != null) {
            roundTimer.cancel();
        }

        // Marks any active player who didn't make a choice as eliminated
        for (Player player : players) {
            if (!player.isRoundActive()) {
                player.setEliminated(true);
            }
        }

        // Calls processBattles() to determine round outcomes
        processBattles();

        // Each player battles their neighbor
        for (int i = 0; i < players.size(); i++) {
            Player player = players.get(i);
            Player neighbor = players.get((i + 1) % players.size());
            player.battle(neighbor);
        }

        // Uses compareChoices() to determine winner
        for (Player player : players) {
            if (player.getChoice() == null) {
                player.setEliminated(true);
            } else {
                player.setWinner(true);
            }
        }

        // Winner receives 1 point
        updatePlayerPoints();

        // automatically syncs points to all clients
        broadcastScoreboard();

        // Losers are marked as eliminated
        for (Player player : players) {
            if (player.getScore() == 0) {
                player.setEliminated(true);
            }
        }

        // Battle results relayed to all clients
        broadcastBattleResults();

        // Calls checkWinCondition() to determine if game continues
        if (checkWinCondition()) {
            startNewSession();
        }
    }
```

sessionEnd()



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## ≡, Part 2:

**Details:**

- Briefly explain the logic that occurs here (i.e., cleanup/reset, next lifecycle events)

**Your Response:**

Sets `isSessionActive = false` to end the game  
 Clears `readyPlayers` set for next session  
 Displays winner or tie message  
 Sends `SESSION_END` payload with game over message and scoreboard  
 Resets points to 0  
 Clears elimination status  
 Clears choices  
 Syncs reset points to all clients  
 Prompts players to use `/ready` for new session



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## Section #3: ( 4 pts.) Gameroom User Action And State

### ≡ Task #1 ( 2 pts.) - Choice Logic

**Details:**

- Reqs from document
  - Command: `/pick <[r,p,s]>` (user picks one)
    - GameRoom will check if it's a valid option
    - GameRoom will record the choice for the respective Player
    - A message will be relayed saying that "X picked their choice"
    - If all Players have a choice the round ends

#### Part 1:

**Details:**

- Show the code snippets of the following, and clearly caption each screenshot
- Show the Client processing of this command (process client command)
- Show the ServerThread processing of this command (process method)
- Show the GameRoom handling of this command (handle method)
- Show the sending/syncing of the results of this command to users (send/sync method)
- Show the ServerThread receiving this data (send method)
- Show the Client receiving this data (process method)

```
// bs768, 11/24/2025, Client Processing
} else if (text.startsWith("pick")) {
  text = text.replace("pick", "").trim();
  if (text.length() > 0) {
    String choice = text;
    if (choice.equals("r") || choice.equals("p") || choice.equals("s")) {
      // Process choice logic here
    }
  }
}
```



```
if (text.length() == 0) {
    LoggerUtil.INSTANCE.warning(TextFX.colorize("Usage: /pick <r|p|s>", Color.RED));
} else {
    sendPick(text);
}
wasCommand = true;
} else if (text.equalsIgnoreCase("ready")) {
    sendReady();
    wasCommand = true;
}
```

### ClientProcessing

```
case PLAYER_PICK:
```

```
    currentRoom.handlePick(this, incoming.getMessage());
    break;
```

### ServerThread

```
//bs768, 11/24/2025, handlePick method for room
public synchronized void handlePick(ServerThread client, String choice) {
    if (!roundActive || client.isEliminated()) {
        return;
    }
    if (choice == null
        || (!choice.equalsIgnoreCase("r") && !choice.equalsIgnoreCase("p") && !choice.equalsIgnoreCase("s"))) {
        client.sendMessage(Constants.DEFAULT_CLIENT_ID, "Invalid choice. Use r, p, or s.");
        return;
    }

    client.setChoice(choice.toLowerCase());
    relay(null, client.getDisplayName() + " picked their choice.");

    checkRoundEnd();
}
```

### GameRoomHandling

```
//bs768, 11/24/2025, relay method for Room
protected synchronized void relay(ServerThread sender, String message) {
    if (clientsInRoom.size() == 1)
        return;

    String senderString = sender == null ? String.format("Room(%d)", -1) : sender.getDisplayName();

    String formattedMessage = message + Constants.DEFAULT_CLIENT_ID + " [" + sender.getDisplayName() + "]";

    // Note: FormattedMessage must be passed (or effectively passed) across subtasks
    // scope can't be changed inside a callback function (see removeIf() below)
    // final String formattedMessage = String.format("%s [%s]", sender.getDisplayName(), message);

    // loop over clients and send out the message: remove client at message failed
    // to be sent
    // Note: this uses a lambda expression that makes it less verbose than the solution in extractFrom
    // since one way we can safely remove items during iteration
    intString.format("sending message to %s recipients: %d", clientsInRoom.size(), FormattedMessage);
    clientsInRoom.forEach((client) -> {
        boolean hasFailedSend = !client.sendFormattedMessage(client.getId(), FormattedMessage);
        if (hasFailedSend) {
            LoggerUtil.INSTANCE.warning(
                String.format("Removing client from room due to disconnect (%s)", client.getDisplayName()));
            disconnect(client);
        }
    });
}
```

### Send/Sync Method

```
//bs768, 11/24/2025, sendMessage method for ServerThread
protected boolean sendMessage(long clientId, String message) {
    Payload payload = new Payload();
    payload.setPayloadType(PayloadType.MESSAGE);
    payload.setMessage(message);
    payload.setClientId(clientId);
    return sendToClient(payload);
}
```

### ServerThread

//bs768, 11/24/2025, processMessage method for Client

```
private void processMessage(Payload payload) {
```

```
    LoggerUtil.INSTANCE.info(TextFX.colorize(payload.getMessage(), Color.BLUE));
```

```
}
```

### ProcessMethod



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## Part 2:

Progress: 100%

### Details:

- Briefly explain/list in order the whole flow of this command being handled from the client-side to the server-side and back

### Your Response:

User types /pick r in terminal sendPick("r") creates Payload with type PLAYER\_PICK and message "r" Payload sent to server via sendToServer() processPayload() receives PLAYER\_PICK payload Calls currentRoom.handlePick(this, "r") handlePick() validates choice and round state Stores choice of player Calls relay() to broadcast pick notification



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## Task #2 ( 2 pts.) - Game Cycle Demo

Progress: 100%

### Details:

- Show examples from the terminal of a full session demonstrating each command and progress output
- This includes battle outcomes, scores and scoreboards, etc
- Ensure at least 3 Clients and the Server are shown
- Clearly caption screenshots

### PROBLEMS OUTPUT STATUS CONSOLE TERMINAL PORTS

```
oan [INFO]: 
> Room[lobby]: sending message to 4 re
eclients. Room[lobby]: Session ended.
Type /ready to start a new game.
11/24/2025 19:47:54 [Project_Server.Sc
riptThread] (INFO) 
y Room[lobby]: Session ended. Type /ready
to start a new game.
11/24/2025 19:47:54 [Project_Server.Sc
riptThread] (INFO) 
```

```
Bryan[Bryan: MINGW64 ~/it114 project/Pr
oject (Client)] 
$ cd /c/Users/Bryan/it114/project
java Project.Client.Client
...
11/24/2025 19:48:00 [Project.Client.Cli
ent] (INFO) 
y Room[lobby]: Session ended. Type /ready
to start a new game.
11/24/2025 19:47:54 [Project_Server.Sc
riptThread] (INFO) 
```

```
Bryan[Bryan: MINGW64 ~/it114 project (H
ostThread)] 
$ cd /c/Users/Bryan/it114/project
java Project.Client.Client
...
11/24/2025 19:48:00 [Project.Client.Cli
ent] (INFO) 
y Room[lobby]: Session ended. Type /ready
to start a new game.
11/24/2025 19:47:54 [Project_Server.Sc
riptThread] (INFO) 
```

```
Bryan[Bryan: MINGW64 ~/it114 project]
$ cd /c/Users/Bryan/it114/project
java Project.Client.Client
...
y Room[lobby]: Ben05 picked their choic
e.
11/24/2025 19:49:05 [Project.Client.Cli
ent] (INFO) 
y Ben05 (r) vs Alex02 (p); Alex02 wi
ns!
Ben05 (s) vs Ben01 (r); Ben01 wins!
Ben05 (s) vs Bryan01 (r); Bryan01 wins!
...

```

... (continued)

```

11/24/2025 10:40:43 [Project.Server.Sc
sserverImpl] (INFO):
> Thread[1]: Received from client: Payla
d([AWT-EventQueue-0] Client Id [0] Mes
sage: [null])
11/24/2025 10:40:43 [Project.Server.Sc
sserverImpl] (INFO):
> Room[Lobby]: sending message to 3 re
cipients: Room[Lobby]: Bryant1 is read
y.
11/24/2025 10:40:43 [Project.Server.Sc
sserverImpl] (INFO):
> Room[Lobby]: Session ended. Type /re
ady to start a new game.
11/24/2025 10:40:43 [Project.Client.Cl
ient] (INFO):
> Room[Lobby]: Session ended. Type /re
ady to start a new game.
11/24/2025 10:40:43 [Project.Client.Cl
ient] (INFO):
> Room[Lobby]: Session ended. Type /re
ady to start a new game.

```

## Game 1

<pre> PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS &gt; Thread[2]: Sending to clients: Points Payload([clients=1, Points=1]) 11/24/2025 10:48:08 [Project.Server.Sc sserverImpl] (INFO): &gt; Room[Lobby]: sending message to 3 re cipients: Room[Lobby]: Session ended. 11/24/2025 10:48:08 [Project.Server.Sc sserverImpl] (INFO): &gt; Thread[3]: Sending to client: Payla d([view] Client Id [-1] Message: [Re questLobby]) Session ended. Type /read y 11/24/2025 10:48:08 [Project.Server.Sc sserverImpl] (INFO): &gt; Thread[2]: Sending to client: Payla d([view] Client Id [-1] Message: [Re questLobby]) Session ended. Type /read y 11/24/2025 10:48:08 [Project.Server.Sc sserverImpl] (INFO): &gt; Thread[1]: Received from client: Payla d([AWT-EventQueue-0] Client Id [0] Mes sage: [null]) 11/24/2025 10:48:08 [Project.Server.Sc sserverImpl] (INFO): &gt; Room[Lobby]: sending message to 3 re cipients: Room[Lobby]: Bryant1 is read y. 11/24/2025 10:48:08 [Project.Client.Cl ient] (INFO): &gt; Room[Lobby]: Session ended. Type /re ady to start a new game. 11/24/2025 10:48:08 [Project.Client.Cl ient] (INFO): &gt; Room[Lobby]: Session ended. Type /re ady to start a new game. 11/24/2025 10:48:08 [Project.Client.Cl ient] (INFO): &gt; Room[Lobby]: Session ended. Type /re ady to start a new game. </pre>	<pre> Bryant1@yan 10:48:08 ~/11114-project [P roject] \$ cd ~/Codes/Yan/11114-project \$ java Project.Client.Client ... 11/24/2025 10:48:09 [Project.Client.Cl ient] (INFO): &gt; Bryant1 (r) vs Alex02 (s): Bryant1 w ins Alex02 (s) vs Room0 (z): Tied Room0 (z) vs Bryant1 (r): Bryant1 wins 1 11/24/2025 10:48:09 [Project.Client.Cl ient] (INFO): &gt; Game Over! Winner: Bryant1 Final Scores: Bryant1: 2 Alex02: 0 Room0: 0 11/24/2025 10:48:09 [Project.Client.Cl ient] (INFO): &gt; Room[Lobby]: Session ended. Type /re ady to start a new game. 11/24/2025 10:48:09 [Project.Client.Cl ient] (INFO): &gt; Room[Lobby]: Session ended. Type /re ady to start a new game. 11/24/2025 10:48:09 [Project.Client.Cl ient] (INFO): &gt; Room[Lobby]: Session ended. Type /re ady to start a new game. </pre>
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## Game 2

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# Section #4: ( 1 pt.) Misc

Progress: 100%

## ≡ Task #1 ( 0.33 pts.) - Github Details

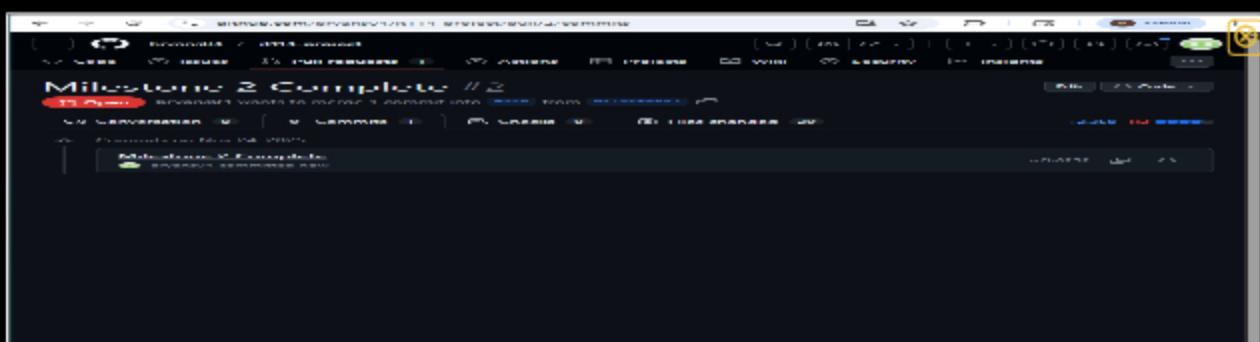
Progress: 100%

### Part 1:

Progress: 100%

#### Details:

From the Commits tab of the Pull Request screenshot the commit history



Github

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### Part 2:

Progress: 100%

**Details:**Include the link to the Pull Request (should end in `/pull/#`)

URL #1

<https://github.com/bryans04/it114-project/pull/2/commits>

URL

<https://github.com/bryans04/it114-project/pull/2/commits>

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## ▣ Task #2 ( 0.33 pts.) - WakaTime - Activity

Progress: 100%

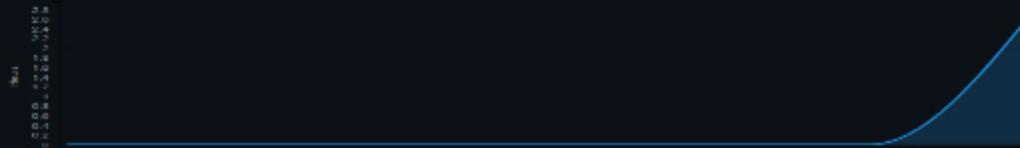
**Details:**

- Visit the [WakaTime.com Dashboard](#)
- Click [Projects](#) and find your repository
- Capture the overall time at the top that includes the repository name
- Capture the individual time at the bottom that includes the file time
- Note: The duration isn't relevant for the grade and the visual graphs aren't necessary

### Projects - it114-project

2 hrs 41 mins over the [Last 7 Days](#) in it114-project under [all](#) branches. ⏪

total 2 hrs 54 mins



wkatime



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## ☰ Task #3 ( 0.33 pts.) - Reflection

Progress: 100%

## ☒ Task #1 ( 0.33 pts.) - What did you learn?

Progress: 100%

**Details:**

Briefly answer the question (at least a few decent sentences)

Your Response:

Paykoads are tricky but also, very helpful once you learn how to use them correctly.



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## ☞ Task #2 ( 0.33 pts.) - What was the easiest part of the assignment?

Progress: 100%

**Details:**

Briefly answer the question (at least a few decent sentences)

Your Response:

Setting up the scoreboard was one of the easiest things for me. As well as suprisingly setting up the pick r/p/s since i usually tend to always seem to find a way to mess up commands in past HWs.



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## ☞ Task #3 ( 0.33 pts.) - What was the hardest part of the assignment?

Progress: 100%

**Details:**

Briefly answer the question (at least a few decent sentences)

Your Response:

The hardest part for me was setting up the round robin part, because you had to make every player verse eachother once and keep track of scores at the same time.



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