Golden Balls

Rules of the Game:

- This game is based off of the UK Television Series Golden Balls, with minor adjustments for coding purposes.

- This version of the game is played with four players, one user and three computers.

- The game consists of four rounds in total: two elimination rounds and two one-on-one rounds.

- At any point in the game, if the user is eliminated, the game ends.

ROUND 1:

1. The game starts when 12 balls are randomly selected from the <u>GOLDEN BANK</u> of 100 balls with predetermined <u>MONEY</u> values and mixed with 4 <u>KILLER</u> Balls.
2. Each player receives 4 of the 16 balls, two of which are publicly revealed, known as <u>FRONT BALLS</u>.
3. Using the <u>PRIVATE BALLS</u> as leverage, players try to persuade each other to keep them in the game.
4. Then, everyone will <u>VOTE</u>; the vote is revealed and the person with the most votes is eliminated along with their balls; in the event of a tie, one of the people tied selected at random will be eliminated.
5. All the remaining balls are revealed.

ROUND 2:

1. The 12 remaining balls are shuffled with 2 new balls from the <u>GOLDEN BANK</u>, and 1 new <u>KILLER</u> ball.
2. Each player receives 5 of the 15 balls, two of which are <u>FRONT BALLS</u>.
3. Using the <u>PRIVATE BALLS</u> as leverage, players try to persuade each other to keep them in the game.
4. Then, everyone will <u>VOTE</u>; the vote is revealed and the person with the most votes is eliminated along with their balls; in the event of a tie, one of the people tied selected at random will be eliminated.
5. All the remaining balls are revealed.

BIN OR WIN:

1. The 10 remaining balls are shuffled with 1 additional <u>KILLER</u> ball.
2. The user alternates picking balls to <u>BIN</u> (discard) and <u>WIN</u> (6 binned balls, 5 winning balls in total).
3. <u>MONEY</u> values selected to "win" are added to the <u>JACKPOT</u>. If a <u>KILLER</u> ball is selected, the <u>JACKPOT</u> value is divided by a factor of 10. (The order of ball selection matters.)

SPLIT OR STEAL:

1. Each remaining player is given three balls, stating <u>SPLIT</u>, <u>STEAL</u>, and <u>COUNTER</u>.
2. When both players have made their final decision, they reveal at once and the <u>JACKPOT</u> is distributed:

SPLIT & SPLIT : Both players split the <u>JACKPOT</u> equally

STEAL & STEAL : Both players <u>LOSE</u> everything

COUNTER & COUNTER : Both players split half of the <u>JACKPOT</u> equally

SPLIT & STEAL : Player who steals against the split wins the entire <u>JACKPOT</u>

STEAL & COUNTER : Player who counters the steal wins the entire <u>JACKPOT</u>

COUNTER & SPLIT : Player who tries to counter against forfeits the entire <u>JACKPOT</u> to the other player

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Example Game:

Round 1	Front Balls		Private Balls		Vote
User	90	KILLER	250	25000	Comp 3
Computer 1	225	50	?	?	Comp 2
Computer 2	KILLER	500	?	?	Comp 3
Computer 3	KILLER	400	?	?	User
Eliminated	KILLER	400	KILLER	3500	Comp 3

Round 2	Front Balls		Private Balls			Vote
User	2250	KILLER	500	150	250	Comp 1
Computer 1	KILLER	400	?	?	?	User
Computer 2	25000	500	?	?	?	Comp 1
Eliminated	KILLER	400	60000	350	KILLER	Comp 1

Bin	500	90	50	250	25000	KILLER
Win	2250	150	225	KILLER	500	█
Pot	2250	2400	2625	262.50	762.50	█

User Decision	Computer 2 Decision	Outcome
SPLIT	STEAL	Computer 2 wins $762.50