CSI - 3140

Assignment 2
Group 3

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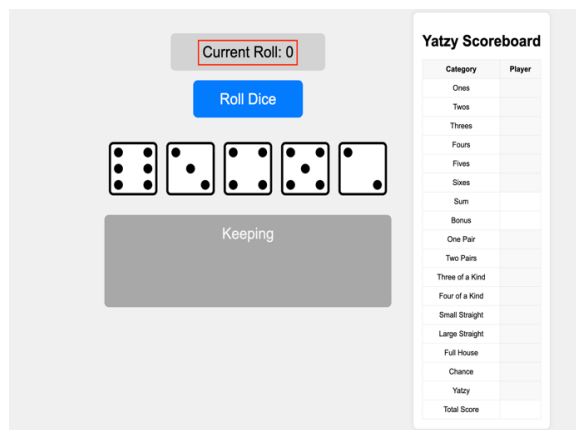Jun 09, 2024

Yatzy Game

Description

Welcome to the Yatzy game! Yatzy is a classic dice game in which players roll five dice and try to find different combinations and score points. Each player gets three rolls, and in each roll, payers can decide which dice to keep, and then they can reroll other dice. Each player aims to maximize their score by filling out the scorecard.
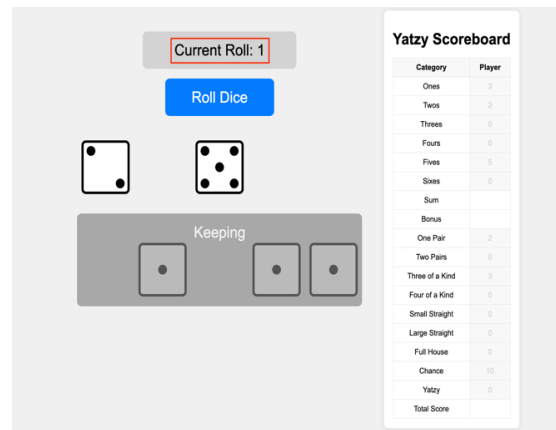
How to Play

1. **Rolling Dice**: Click on the "Roll Dice" button to roll all five dice.
2. **Selecting Dice**: Click on the dice one wants to select or deselect and then reroll the dice.
3. **Rerolling**: After the first roll, you can choose which dice to reroll by selecting them and then clicking the "Roll Dice" button.
4. **Scoring**: Once you find the best combination in your three rolls, choose a score box to fill in based on the combination achieved.
5. **End Game**: The game ends when all score boxes are filled. If a player gets more than or equal to 63 scores, they get a bonus of 50 points.
6. **Restart Game**: Click on this button when the game is ended and the player wants to play a new game.

Screenshots of the complete game

Roll – 0

Roll - 1

Roll – 2

Yatzy Scoreboard

Category	Player
Ones	4
Twos	0
Threes	0
Fours	0
Fives	5
Sixes	0
Sum	
Bonus	
One Pair	2
Two Pairs	0
Three of a Kind	3
Four of a Kind	4
Small Straight	0
Large Straight	0
Full House	0
Chance	9
Yatzy	0
Total Score	

Current Roll: 2
Roll Dice
Keeping

Roll - 1

Yatzy Scoreboard

Category	Player
Ones	4
Twos	0
Threes	0
Fours	0
Fives	5
Sixes	0
Sum	
Bonus	
One Pair	2
Two Pairs	0
Three of a Kind	3
Four of a Kind	4
Small Straight	0
Large Straight	0
Full House	0
Chance	9
Yatzy	0
Total Score	

Current Roll: 3
Roll Dice
Keeping

Sum of One's

Yatzy Scoreboard

Category	Player
Ones	4
Twos	
Threes	
Fours	
Fives	
Sixes	
Sum	
Bonus	
One Pair	
Two Pairs	
Three of a Kind	
Four of a Kind	
Small Straight	
Large Straight	
Full House	
Chance	
Yatzy	
Total Score	

Current Roll: 0
Roll Dice
Keeping

Sum of two's

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	
Fours	
Fives	
Sixes	
Sum	
Bonus	
One Pair	
Two Pairs	
Three of a Kind	
Four of a Kind	
Small Straight	
Large Straight	
Full House	
Chance	
Yatzy	
Total Score	

Current Roll: 0
Roll Dice
Keeping

Sum of Three's

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	3
Fours	
Fives	
Sixes	
Sum	
Bonus	
One Pair	8
Two Pairs	
Three of a Kind	
Four of a Kind	24
Small Straight	
Large Straight	
Full House	
Chance	21
Yatzy	
Total Score	

Current Roll: 0
Roll Dice
Keeping

Sum of Four's

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	3
Fours	8
Fives	
Sixes	24
Sum	
Bonus	
One Pair	8
Two Pairs	18
Three of a Kind	18
Four of a Kind	24
Small Straight	
Large Straight	20
Full House	27
Chance	21
Yatzy	0
Total Score	

Current Roll: 0
Roll Dice
Keeping

Sum of Fives

Current Roll: 0

Roll Dice

Keeping

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	3
Fours	8
Fives	10
Sixes	24
Sum	
Bonus	
One Pair	8
Two Pairs	18
Three of a Kind	18
Four of a Kind	24
Small Straight	
Large Straight	20
Full House	27
Chance	21
Yatzy	0
Total Score	

Sum of Sixes

Current Roll: 0

Roll Dice

Keeping

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	3
Fours	
Fives	
Sixes	24
Sum	
Bonus	
One Pair	8
Two Pairs	
Three of a Kind	18
Four of a Kind	24
Small Straight	
Large Straight	20
Full House	
Chance	21
Yatzy	
Total Score	

One Pair

Current Roll: 0

Roll Dice

Keeping

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	
Fours	
Fives	
Sixes	
Sum	
Bonus	
One Pair	8
Two Pairs	
Three of a Kind	
Four of a Kind	24
Small Straight	
Large Straight	
Full House	
Chance	21
Yatzy	
Total Score	

Two pairs

Current Roll: 0

Roll Dice

Keeping

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	3
Fours	
Fives	
Sixes	24
Sum	
Bonus	
One Pair	8
Two Pairs	18
Three of a Kind	18
Four of a Kind	24
Small Straight	
Large Straight	20
Full House	
Chance	21
Yatzy	
Total Score	

Three of a kind

Current Roll: 0

Roll Dice

Keeping

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	3
Fours	
Fives	
Sixes	
Sum	
Bonus	
One Pair	8
Two Pairs	
Three of a Kind	18
Four of a Kind	24
Small Straight	
Large Straight	
Full House	
Chance	21
Yatzy	
Total Score	

Four of a kind

Current Roll: 0

Roll Dice

Keeping

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	
Fours	
Fives	
Sixes	
Sum	
Bonus	
One Pair	
Two Pairs	
Three of a Kind	
Four of a Kind	24
Small Straight	
Large Straight	
Full House	
Chance	21
Yatzy	
Total Score	

Large Straight

Current Roll: 0

Roll Dice

Keeping

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	3
Fours	
Fives	
Sixes	
Sum	
Bonus	
One Pair	8
Two Pairs	
Three of a Kind	18
Four of a Kind	24
Small Straight	
Large Straight	20
Full House	
Chance	21
Yatzy	
Total Score	

Full house

Current Roll: 0

Roll Dice

Keeping

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	3
Fours	
Fives	
Sixes	24
Sum	
Bonus	
One Pair	8
Two Pairs	18
Three of a Kind	18
Four of a Kind	24
Small Straight	
Large Straight	20
Full House	27
Chance	21
Yatzy	
Total Score	

Chance

Current Roll: 0

Roll Dice

Keeping

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	
Fours	
Fives	
Sixes	
Sum	
Bonus	
One Pair	
Two Pairs	
Three of a Kind	
Four of a Kind	
Small Straight	
Large Straight	
Full House	
Chance	21
Yatzy	
Total Score	

Yatzy

Current Roll: 0

Roll Dice
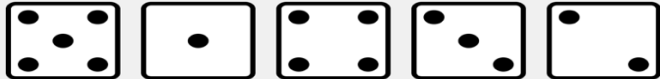
Keeping

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	3
Fours	
Fives	
Sixes	24
Sum	
Bonus	
One Pair	8
Two Pairs	18
Three of a Kind	18
Four of a Kind	24
Small Straight	
Large Straight	20
Full House	27
Chance	21
Yatzy	0
Total Score	

Small straight & End of the Game

Current Roll: 0

Roll Dice

Keeping

Game Over! Your total score is: 208

Restart Game

Sum < 63
Therefore, no bonus

Yatzy Scoreboard

Category	Player
Ones	4
Twos	8
Threes	3
Fours	8
Fives	10
Sixes	24
Sum	57
Bonus	0
One Pair	8
Two Pairs	18
Three of a Kind	18
Four of a Kind	24
Small Straight	15
Large Straight	20
Full House	27
Chance	21
Yatzy	0
Total Score	208

Description of team and roles:

Member	Tasks
Thomas Ford	- Worked on game Implementation - Worked on CSS, HTML, JS of game.
Bhavuk Garg	- Integration of game into portfolio - Made assignment Summary

Link for assignment:

https://github.com/GlowRock0/portfolio
https://github.com/GlowRock0/yatzy