## Preface

Full description of each Class and Class Hierarchy available in HTML Javadoc format in doc folder. Browse to ***“*doc*”*** folder from the zip folder and open **index.html** with your favourite browser.

## Morra Game Description

“Morra” is a hand game usually played for entertainment or to settle a disagreement.

The game has many variations and can be played by two or more players. Morra Odds and Evens Variation In this variation of the game, one player is going to be the “Odds” player and the other player is the “Evens” player. In each round of the game, the players will simultaneously hold out between 1 and 10 fingers. The winner of the round is decided based on the sum of fingers shown by both players , namely if the sum is an even number then the “Evens” player wins, otherwise if the sum is an odd number then the “Odds” player wins. The winner of the round receives two points. In addition, the player whose number of fingers is closer to the sum, receives one extra point. The winner of the game is the first player who accumulates six points.

## Package Contents

◦src (Source Code)

◦Constants

◦Game

◦Morra

◦MorraApp

◦Play

◦Player

◦HumanPlayer

◦VirtualPlayer

◦doc (Documentation in Javadoc format)

## Sample Run

!!! Ola !!!   
Do you want to play as Even Or Odd ?  
  
Hint: 'Even Number entry selects Even', Odd Number entry selects 'Odd'  
JUNK  
Invalid entry, ONLY integer value is accepted   
-1000  
I will be positive, discarding negative part  
  
Player  : PLYR : Chosen play type  : 0  
Player  : CPU : Chosen play type  : 1  
  
PLYR pick a Number between 1 and 10(Duplicate last Play would be rejected): JUNK  
Invalid entry, ONLY integers {1-10} accepted   
-1000  
You entered a negative value - But I am positive, I will the ignore negative part  
You entered a value larger than 10 - Modulated to Base 10.  
You picked 0, I will replace your play with a random pick  
  
Round    Player    Play    score    Round    Player    Play    score  
1    PLYR    1    2    1    CPU    9    1      
Total Score for PLYR 2  
Total Score for CPU 1  
  
PLYR pick a Number between 1 and 10(Duplicate last Play would be rejected): 1  
PLYR pick a Number between 1 and 10(Duplicate last Play would be rejected): 1  
PLYR pick a Number between 1 and 10(Duplicate last Play would be rejected): 3  
  
Round    Player    Play    score    Round    Player    Play    score  
1    PLYR    1    2    1    CPU    9    1      
2    PLYR    3    2    2    CPU    3    0      
Total Score for PLYR 4  
Total Score for CPU 1  
  
PLYR pick a Number between 1 and 10(Duplicate last Play would be rejected): 4  
  
Round    Player    Play    score    Round    Player    Play    score  
1    PLYR    1    2    1    CPU    9    1      
2    PLYR    3    2    2    CPU    3    0      
3    PLYR    4    0    3    CPU    7    3      
Total Score for PLYR 4  
Total Score for CPU 4  
  
PLYR pick a Number between 1 and 10(Duplicate last Play would be rejected): 4  
PLYR pick a Number between 1 and 10(Duplicate last Play would be rejected): 3  
  
Round    Player    Play    score    Round    Player    Play    score  
1    PLYR    1    2    1    CPU    9    1      
2    PLYR    3    2    2    CPU    3    0      
3    PLYR    4    0    3    CPU    7    3      
4    PLYR    3    0    4    CPU    8    3      
Total Score for PLYR 4  
Total Score for CPU 7  
  
Bingo we have winner as CPU