2/3/2021 Craps

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# **Class Craps**

java.lang.Object Craps

public class Craps
extends java.lang.Object

# **Constructor Summary**

# Constructors

Constructor	Description
Craps()	

# **Method Summary**

All Method	ds Static Methods	Concrete Methods
Modifier and Type	Method	Description
static int	comeOut(boolean verb	Phase I of the game of craps: The "come out." Roll until the "point" is established.
static double	computeOdds(int numG	Compute the odds: how likely it is to win the game of craps.
static void	<pre>main (java.lang.String[]</pre>	Test the game of craps.
static boolean	<pre>playToReplay (boolean verbose)</pre>	Play a game of craps: the "come out" (phase I) and the "point" (phase II).
static boolean	<pre>playToWin (boolean verbose)</pre>	Play a game of craps: the "come out" (phase I) and the "point" (phase II).
static boolean	<pre>point(int target, boolean verbose)</pre>	Phase II of the game of craps: "The point." Roll until the "point" is repeated, or the user craps out.
static int	roll2(boolean verbos	Roll a pair of 6-sided dice.
static void	test()	Test the game of craps by replaying until the player sevens out.

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## **Constructor Detail**

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## **Method Detail**

## roll2

public static int roll2(boolean verbose)

Roll a pair of 6-sided dice.

#### Parameters:

verbose - (boolean) true if the throw should be printed to the terminal

#### Returns:

sum (int) the sum of 2 rolled dice.

### comeOut

public static int comeOut(boolean verbose)

Phase I of the game of craps: The "come out." Roll until the "point" is established.

### Parameters:

verbose - (boolean) true if the result of the come out should be printed.

### Returns:

point (int) the value of the die that must be rolled again before a 7.

### point

public static boolean point(int target, boolean verbose)

Phase II of the game of craps: "The point." Roll until the "point" is repeated, or the user craps out.

### Parameters:

target - (int) the dice total established during the comeout.

verbose - (boolean) true if the play-by-play should be printed.

### Returns

win (boolean) true if the player wins the game ("passes"), false if they seven out.

## playToReplay

public static boolean playToReplay(boolean verbose)

Play a game of craps: the "come out" (phase I) and the "point" (phase II).

### Returns:

replay (boolean) true if the player is allowed to play again, false if they must give up the dice.

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Play a game of craps: the "come out" (phase I) and the "point" (phase II).

#### Returns:

win (boolean) true if the player won, false if they lost.

#### test

public static void test()

Test the game of craps by replaying until the player sevens out.

### computeOdds

public static double computeOdds(int numGames)

Compute the odds: how likely it is to win the game of craps.

#### Parameters:

numGames - (int) the number of craps games over which the odds will be calculated

#### Returns:

odds (double) the percent of games won: naturals + passes out of all numGames games

## main

public static void main(java.lang.String[] args)

Test the game of craps.

## Parameters:

args - (String[]) commandline parameters

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