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import java.util.ArrayList;
import java.util.Arrays;
import java.util.Random;
import java.util.Scanner;
public class PD Mexico {
   static Scanner sc = new Scanner(System.in);
   static Random rand = new Random();
   static boolean chosenPermittedRolls = false;
   static int[] lives = { 6, 6, 6 };
   static ArrayList<Integer> order = new ArrayList<Integer>(
           Arrays.asList(21, 66, 55, 44, 33, 22, 11, 65, 64, 63, 62, 61,
54, 53, 52, 51, 43, 42, 41, 32, 31));
   static int currentPlayer = 0;
   public static void main(String[] args) {
       System.out.println("=========\nWelcome to
((MEXICO)) \n========="");[][]
       while ((lives[0] > 0 && lives[1] > 0) || (lives[0] > 0 && lives[2]
> 0) || (lives[1] > 0 && lives[2] > 0)) {
           int[] rollResults = new int[3];
           int permittedRolls = 3;
           chosenPermittedRolls = false;
           for (int player = 0; player < 3; player++) {</pre>
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int realPlayer = player;
                if (player != -1) {
                    realPlayer = (player + currentPlayer) % 3;
                if (!(lives[realPlayer] < 1)) {</pre>
                    permittedRolls = getPlayerRolls(realPlayer,
permittedRolls, rollResults);
                    System.out.printf("+> Player [%d] ended this turn with
a roll of %d!\n", realPlayer + 1,
                            rollResults[realPlayer]);
                    System.out.println();
            currentPlayer = calculateLoser(rollResults);
            if (currentPlayer != -1) {
                lives[currentPlayer]--;
                System.out.printf(
                        "===> Player [%d] lost this round with a roll of
%d. They now have %d live(s) left. <===\n\n\n",
                        currentPlayer + 1, rollResults[currentPlayer],
lives[currentPlayer]);
       printWinner();
```

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* @param player
    * @param permittedRolls The number of permitted rolls
    * @return The number of permitted remaining rolls
   private static int getPlayerRolls(int player, int permittedRolls,
int[] rollResults) {
       boolean quitFlag = false;
       for (int roll = 1; roll <= permittedRolls && !quitFlag; roll++) {</pre>
           int rollResult = getRandomRoll();
           System.out.printf("Player [%d] roll: %d. You have %d roll(s)
left.\n", player + 1, rollResult,
                  permittedRolls - roll);
           if (roll != permittedRolls) {
               System.out.print("Are you happy with this roll? 1 = YES/0
= NO ");
              int wantQuit = sc.nextInt();
               if (wantQuit == 1) {
                  rollResults[player] = rollResult;
                  if (!chosenPermittedRolls) {
                      chosenPermittedRolls = true;
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permittedRolls = roll;
                 quitFlag = true;
          } else {
             rollResults[player] = rollResult;
      if (!chosenPermittedRolls && !quitFlag) {
          chosenPermittedRolls = true;
          permittedRolls = 3;
      return permittedRolls;
    * @param rollResults: The results of each player's roll
   private static int calculateLoser(int[] rollResults) {
      int[] index = { order.indexOf(rollResults[0]),
int currentPlayer = -1;
```

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int losingScore = Math.max(Math.max(index[0], index[1]),
index[2]);
        ArrayList<Integer> losingPlayers = new ArrayList<Integer>();
        for (int player = 0; player < 3; player++) {</pre>
            if (index[player] == losingScore) {
                losingPlayers.add(player);
        switch (losingPlayers.size()) {
            System.out.println("This round was a draw!\n\n");
        case 2:
            System.out.printf(
                    "Player [%d] and player [%d] have tied! The
currentPlayer is decided by a random coin flip...\n",
                    losingPlayers.get(0) + 1, losingPlayers.get(1) + 1);
            currentPlayer = losingPlayers.get(rand.nextInt(2));
            System.out.printf("Player [%d] lost the coin flip!
Unlucky.\n", currentPlayer + 1);
            break;
        default:
            currentPlayer = losingPlayers.get(0);
            break;
```

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return currentPlayer;
   private static void printWinner() {
       for (int player = 0; player < 3; player++) {</pre>
            if (lives[player] > 0) {
                System.out.printf("-=-=->> Player [%d] is the winner!!
Thanks for playing. <<=-=-", player + 1);
    * @return An integer value from 1 to 6 inclusive
   private static int getRandomRoll() {
       return dice1 > dice2 ? dice1 * 10 + dice2 : dice2 * 10 + dice1;
```