

Assignment 2

Design: Left, Right and Center

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1 Introduction

This program will run a game which needs to indicate specific Random Seed and number of players. It will automatically play and shows who will win the game. Expect that program needs to use Array, Random Number, for Loop and while Loop.

2 Program

In the main function:

- Scan the Random Seed and the Number of Players

- Create three Array for dice (6 faces), player (10 persons), and player's balance (\$3 of each).

- Create an int variable PotBalance for representing the money in center.

- Use the Random Seed to create the dice.

- Set a Boolean variable ResultCheck to check whether the result is generated

- Set a variable Pointer to point which player should play

While (ResultCheck equals false), then do:

- If (Pointer equals number of players, then next is 0),
else, Pointer should plus one.

- Pinpoint who is on the left and who is on the right

- Check the money to decided number of dice

- if no balance, then pass

- else print the words (player's name rolls...)

Use the for loop to play the die/dice for this player (the time of loop = # of dice) {

- Use random seed to generate a value for deciding the face of the dice. (Hint: The value should be limited to 0-5)

- If shows left, give the money to left player, print instruction

 - "gives \$1 to ..."

- If shows center, give the money to pot, print instruction

 - "puts \$1 in the pot"

If shows right, give the money to right player, print instruction

“gives \$1 to ...”

If shows pass, then pass, print instruction

“gets a pass”

Use the for loop to test anyone wins, do (the time of loop = # of player):

If any player's balance plus the balance in pot equals the total balance, then

This player is winner, and Result Check should be true

While loop ends

Simply Print who is the winner and the balance of this player and the pot

end