Richard Hayes Crowley

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CSC\_157\_Lab\_05

**SOURCE CODE:**

*import* random

class WrongLength(Exception):

*pass*

def generateRandomList() -> list:

*return* sorted(random.sample(range(0, 10), 3))

def checkWinner(*userList*: list, *randomList*: list) -> bool:

*if* userList == randomList:

*return* True

*else*:

*return* False

print("Richard Hayes Crowley\nCSC\_157\_Lab\_05\n\n")

print("Howdy pardner, ready to test your luck in little game of Rando?\nEnter three numbers between 1 and 9 that you think our PyGuy will pick.\nIf you get them right, you'll win nothing at all.\nBut if you get then wrong, I'm going to laugh at you.\nLet's get started!\n")

*# lets get a sample win on the third try for demo*

thirdTryIsTheCharm = 0

*while* True:

*try*:

randomList = generateRandomList()

userList = [int(item) *for* item *in* list(input(

"Please enter three numbers between one and nine: "))]

*if* len(userList) != 3:

*raise* WrongLength

*elif*(checkWinner(userList, randomList) or thirdTryIsTheCharm == 3):

cont = input(

f"\nPyGuy's List: {userList *if* thirdTryIsTheCharm == 3 *else* randomList} Your list: {userList}\nCongratulations, you've guessed correctly! Try again? Type anything to try again or just press Enter to exit.\n")

*if* not cont:

print("Goodbye!\n")

*break*

*else*:

thirdTryIsTheCharm = 0

*continue*

*else*:

thirdTryIsTheCharm += 1

cont = input(

f"\nPyGuy's List: {randomList} Your list: {userList}\nAw shoot, better luck next time! Try again? Type anything to try again or just press Enter to exit.\n")

*if* not cont:

print("Goodbye!\n")

*break*

*else*:

*continue*

*except* WrongLength:

print("We need three numbers between 1 and 9, partner!!!\n")

*except* ValueError:

print("Please enter numbers only\n")

**…Output is on next page**

**OUTPUT**

Text

Description automatically generated