2/21/2017 Homework Turnin

Homework Turnin

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Section: 2J

Course: CS 110 17sp

Assignment: hw5

Receipt ID: a73de262573d1cf993d9271872852ef8

Turnin Successful!

The following file(s) were received:

```
guessing_game.py
                                   (2960 bytes)
# Author: Riley Taylor
# Course: CSC 110, Section 2J, Spring 2017
# Program: Guessing Game
# This plays a guessing game with the user. The game can be played
# many times and will report overall statistics at the end.
from random import *
MAX_NUMBER = 100
def main():
    again = True
    games = 0
    total guesses = 0
    best_guesses = 0
    best game = 0
    intro()
    # Play the game
    while (again == True):
        games += 1
        guesses = game()
        total quesses += quesses
        if (guesses < best_guesses or best_game == 0):</pre>
            best guesses = guesses
            best game = games
        print()
        again = play_again()
    total(games, total guesses, best game)
# intro() simply provides the introductory haiku.
def intro():
    print("\nFlying piano \nWobbles hastily, pleasant \nObscene lame monks fret.")
```

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```
# play_again() asks if the user wants to play another game.
# RETURN: a bool
def play again():
    prompt = input("Do you want to play again? ")
    p = prompt.lower()
    if (p.startswith("y")):
         return True
    else:
         return False
# game() is the guessing game.
# RETURN: an int representing the number of guesses made
def game():
    print("\nI'm thinking of a number between 1 and "
           + str(MAX NUMBER)
           + "...")
    number = randint(1, MAX_NUMBER)
    guess = 0
    count = 0
    while (int(guess) != number):
         guess = input("Your Guess? ")
         if (int(guess) < number):</pre>
         print("It's higher.")
elif (int(guess) > number):
            print("It's lower.")
         count += 1
    if (count > 1):
         print("You got it right in " + str(count) + " guesses!")
    else:
         print("You got it right in 1 guess!")
    return count
  total() takes in data and returns overall statistics from games
  played by the user.
  PARAMETERS: games -- an int. The number of games played.
                guesses -- an int. The number of guesses made.
                best -- an int. The id of the game played with the
#
                        fewest quesses
#
def total(games, guesses, best):
    guesses_per_game = guesses / games
print("\noverall results:")
print("Total games = " + str(games))
    print("Total guesses = " + str(guesses))
    print( local guesses =  + str(guesses))
print("Guesses/game = " + str(guesses_per_game))
print("Best game = " + str(best))
    print()
main()
```