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ITM 312 - 01

Midterm Part 2

March 6, 2017

**Source Code:**

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\* File: main.cpp

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#include <cstdlib>

#include <iostream>

#include <string>

using namespace std;

int main(int argc, char\*\* argv) {

// random generator for number between 50 and 1

int number = rand() % 50 + 1;

cout << number << endl;

//ask user for their guess

int guess;

cout << "Please enter an integer between 1 and 50" << endl;

cin >> guess;

// user inputs valid number

while(guess >= 1 && guess <= 50){

// number is lower than 1

if (guess < number){

cout << "You guessed too low! Please try again!" << endl;

cout << "Please enter an integer between 1 and 50" << endl;

cin >> guess;

// number is higher than 1

} else if (guess > number){

cout << "You guessed too high! Please try again!" << endl;

cout << "Please enter an integer between 1 and 50" << endl;

cin >> guess;

// number is correct

} else if (guess = number){

cout << "You guessed right" << endl;

return 0;

}

}

// user inputs invalid number

while (guess < 1 || guess > 50){

cout << "You entered an invalid number that is outside of the range! Please try again!" << endl;

cout << "Please enter an integer between 1 and 50" << endl;

cin >> guess;

}

return 0;

}

**Output:**



