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/*****
*   Author:  Jessica Schuler
*   Date Created:  10-13-13
*   Filename:  A2_c.cpp
*
*   Overview:
*       This is a game where a user guesses a number between 1 & 50.
*       The user has 5 rounds to guess the correct number.
*   Input:
*       The user inputs a number between 1 & 50.*
*   Output:
*       The game will tell the user if they are too high, low, or
*       correct.  It will also advise the user if they are out of
*       rounds.
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#include<iostream>
#include<cstdlib> //using this library to access rand function
#include<ctime> //using this library to access seed function

using namespace std; //using this to reduce typing

int main()
{
    int guess; //user's guess
    int number=(rand()%50+1); //random number between 1 and 50
    int tries=0; //number of tries
    srand(time(NULL)); //seed random number generator

    cout<<"Guess a number between 1 and 50:"; //asks user a question
    cin>>guess; //asks user input
    tries++; //tracks number of tries

    while(tries<=4)
    {
        if(guess>number) //if the user input is too high
        {
            cout<<"Your guess is too high!";
            cout<<" You have "<<5-tries<<" rounds left to guess!";
            cout<<" Guess Again!";
            cin>>guess;
            tries++;
        }

        else if(guess<number) // if the user input is too low
        {
            cout<<"Your guess is too low!";
            cout<<" You have "<<5-tries<<" rounds left to guess!";
            cout<<" Guess Again!";
            cin>>guess;
            tries++;
        }

        else if(guess==number)//if the user input is correct
        {
            cout<<"You are correct! it took you "<<tries<<
            " rounds to guess the correct number!";
            break;
        }
    }

    cout<<"Game Over";

    return 0;
}

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