

NUMBER GUESSING GAME WITH C++ PROGRAMMING

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🎮 Welcome to the number guessing game!
Pick a number between 1 and 100. You have 3 attempts.
Enter your guess: 1
😞 Oops, too low! ⬇️ Try again 🎮.
Enter your guess:
5
😞 Oops, too low! ⬇️ Try again 🎮.
Enter your guess: 50
😞 Oops, too low! ⬇️ Try again 🎮.
😞 Sorry, you're out of attempts. The number was 53.

🎮 Do you want to play again? (Yes/No): yes
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#include <iostream>

#include <cstdlib>

#include <ctime>

#include <string>

#include <cctype> // for tolower

using namespace std;

int main() {

    srand(time(0)); // ✅ Seed random only once at the start

    string playAgain;

    do {

        int numberToGuess = rand() % 100 + 1;

        int guess;

        int attempts = 3;

        cout << "\n🎮 Welcome to the number guessing game!\n";

        cout << "Pick a number between 1 and 100. You have 3 attempts.\n";

        while (attempts > 0) {

            cout << "Enter your guess: ";

            cin >> guess;

            if (guess > numberToGuess) {

                cout << "😞 Oops, too high! ⬆️ Try again 🎮.\n";

            } else if (guess < numberToGuess) {

                cout << "😞 Oops, too low! ⬇️ Try again 🎮.\n";

            }

            attempts--;

            if (attempts == 0) {

                cout << "😞 Sorry, you're out of attempts. The number was " << numberToGuess << ".\n";

            }

            if (attempts > 0) {

                cout << "Do you want to play again? (Yes/No): ";

                playAgain = "";

                while (playAgain != "Yes" && playAgain != "No") {

                    playAgain = "";

                    if (playAgain != "" && playAgain[0] != 'Y' && playAgain[0] != 'N') {

                        cout << "Invalid input. Please enter Yes or No. ";

                    }

                    playAgain = "";

                }

                playAgain = playAgain[0];

                if (playAgain == "Yes") {

                    continue;

                } else {

                    break;

                }

            }

        }

    } while (playAgain == "Yes");

    return 0;

}
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    } else {

        cout << "🎉 Well done! You guessed the number!\n";

        break;

    }

    attempts--;

}

if (attempts == 0 && guess != numberToGuess) {

    cout << "😞 Sorry, you're out of attempts. The number was " << numberToGuess << ".\n";

}

// Ask to play again with Yes/No

cout << "\n🔄 Do you want to play again? (Yes/No): ";

cin >> playAgain;

// Convert input to lowercase for case-insensitive comparison

for (auto &c : playAgain) {

    c = tolower(c);

}

} while (playAgain == "yes");

// Final message

cout << "\n🎮 Thanks for playing!\n";

cout << "👋 Thank you for playing with me.\n Come back again 😊\n";

return 0;

}

```