#include <iostream>

#include <cstdlib>

#include <ctime>

using namespace std;

const int SIZE = 5;

const int MAX\_VAL = 9;

void createRandom(int[]);

void getUserInput(int[]);

int countMatching(int[], int[]);

int main()

{

int randomNumbers[SIZE];

int userInput[SIZE];

int matching;

srand(time(0));

createRandom(randomNumbers);

getUserInput(userInput);

matching = countMatching(randomNumbers, userInput);

cout << "Random numbers: ";

for (int i = 0; i < SIZE; i++)

cout << randomNumbers[i] << " ";

cout << endl;

cout << "User input: ";

for (int i = 0; i < SIZE; i++)

cout << userInput[i] << " ";

cout << endl;

cout << "Number of matching: " << matching << endl;

if (matching == SIZE)

cout << "Congratulations! You are a winner!" << endl;

return 0;

}

void createRandom(int nums[])

{

for (int i = 0; i < SIZE; i++) {

nums[i] = rand() % (MAX\_VAL + 1);

cout << nums[i] << '\t';

}

cout << endl;

}

void getUserInput(int nums[])

{

cout << "(Add space between each integer ) Enter " << SIZE << " numbers between 0 and " << MAX\_VAL << ":" << endl;

for (int i = 0; i < SIZE; i++)

cin >> nums[i];

}

int countMatching(int nums1[], int nums2[])

{

int count = 0;

for (int i = 0; i < SIZE; i++)

{

if (nums1[i] == nums2[i])

count++;

}

return count;

}