

CL1002 – Programming Fundamentals Lab

Practice Problems

Problem: 1

Two students are excited to play a game. Each will roll some dice three times, obtaining random numbers. The sum of the respective students' numbers will determine the winner.

- If a player rolls 6 three times, their total score will be zero.
- If there is a tie in the total scores after the initial rounds, the program will check the individual dice rolls to determine the winner. First, it will compare the numbers rolled on dice 1 for both students. If Student 1 has a higher number, they will be declared the winner. In the case of a tie on dice 1, the program will then compare the numbers rolled on dice 2 and so on to determine the ultimate winner. Otherwise, the game will end in a tie.

Sample Output:

Welcome to the Dice Game!

Player 1, please enter your name: Alice

Player 2, please enter your name: Bob

Rolling the dice for Alice...

Dice 1: 4

Dice 2: 2

Dice 3: 5

Rolling the dice for Bob...

Dice 1: 3

Dice 2: 6

Dice 3: 1

Calculating the total scores...

Total score for Alice: 11

Total score for Bob: 10

And the winner is... Alice! Congratulations!