Modern Cricket

Cricket is the one of the popular games that has spread its wings around the globe and the game has seen a lot of forms, Test, One Day or Limited Overs, Day/Night, White/colour bail/ tennis ball, size of the cricket grounds and so on.

This form of the Game is a Wild imagination, keeping our fingers crossed as there lies a possibility of real time implementation. IIT has invented a Bowling Robot, that not only has ability to Bowl, also uses Artificial Intelligence, so the teams that compete are not competing against each other but for all of them the common enemy is the Robot, but the team that scores more runs is the Winner

Following are the list of Rules:

A team will have 5 members

Match is made of limited overs, 20 overs

4 overs per batsman

A batsman can get OUT for a maximum of two times

The left out balls can be carried over to the NEXT batsman only, for example if there are A, B, C, D, E players, Player A plays his quota of 4 overs and makes 40 runs, B faces only 15 balis out of his Quota of 24 balls and get OUT two times, then the left out Balls can be carried over to C player only, C player can use the left out Quota after completing his 24 Ball quota. Hypothetically if C gets out two times out of his 24 ball quota then the left out balls can be played by D but not the carry over balls

Common Fielders for Both the Team, and we trust there will be not be any Match Fixing, they all will field to the best of their ability

Write an application that will simulate a cricket match.

Options

1. Add Team, players

2. Make Match

3 Summary

Option 1

Inputs:

Name of the cricket team

PLAYER I

PLAYER 2

PLAYER 3

PLAYER 4

PLAYER 5

Store it as File, with the team name as the file name along with the name of the players

Option 2

Choose Team 1

Choose Team 2

Play the Match

Randomly generate numbers.

0-No Runs, 1-Single, 2-Two Rus, 3-Three Runs, 4-Boundary 5-RUN OUT, 6-Sixer, 7

LBW, 8-Caught, 9 Bowled

Remember a player can get out ONLY twice

Players will change if he has faced 24 Balls

If a player takes a Single or 3 Runs then the other batsman is facing the ball After every over the Batsman would SWITCH ends, there is only 1 bowling End

Option 3

Summary of all the Matches

Freedom:

If any doubt, feel free to implement any rule that seem appropriate

Design the file structures

Tips for the Hackathon:

Start by focusing on core functionality MATCH

Gradually add additional Features

Prioritize clear and well-commented code for readability and maintainability.

This problem offers various levels of complexity depending on your skillset. You can focus on the core functionalities within the timeframe and potentially add bonus features if time allows. Remember, clear design, well-written code, and effective use of time are crucial for a successful hackathon project.