

Cricket score board

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BATCH-38

COURSE-C PROGRAMMING

What This Does.

- Tracks Team1 batting → Team2 chasing
- Enter runs ball-by-ball (0,1,2,3,4,6 or 7=wicket)
- Shows live score like on TV
- Strike rotates automatically on odd runs
- Tells you who won at the end

1.AIM OF THE PROJECT.

- >To develop a menu-driven C program that works like a cricket scoreboard, allowing the user to:
- >Enter team and player details
- >Update score ball-by-ball (runs, extras, wickets)
- >Track overs and balls
- >Display the live scoreboard at any time
- >This simulates how a real scoreboard updates during a cricket match (for one batting innings).

2.FEATURE OF THE SCOREBOARD

- 1.Stores team details,Team name,Up to 11 player names
2. Tracks batting statistics,Runs scored by each player,Balls faced,Number of 4s and 6s,Whether a player is out or not.
3. Tracks team statistics>Total runs>Total wickets fallen>Total overs (and balls),Extras (wides, no balls, byes/leg-byes as a single count)
4. Menu-driven interface,Add ball details (run, extra, wicket),Display full scoreboard,Exit/end innings

3. Logic / Working (Algorithm Overview)

1. Initialization

Read team name,Read number of players (up to 11),Read each player's name,Initialize all runs, balls, 4s, 6s, and isOut to 0.
Set team total = 0, wickets = 0, overs = 0, balls = 0, extras = 0.

2. Main Menu Loop

Repeatedly show options:

- 1.Add ball
2. Show scoreboard

3. When user selects "Add ball":

Check if 10 wickets have already fallen → innings over.

Ask: What happened on this ball?

Legal runs: 0,1,2,3,4,6

Wicket

Extra (wide/no-ball/byes)

For legal runs:

Choose the batsman number (index).

Update: Player runs

Player balls faced, 4s/6s if applicable

Team total, Legal ball → update ball count; If 6th ball of the over → overs++, balls = 0, Else balls++

For wicket:

Choose the batsman number who got out.

Mark isOut = 1.

Increment wickets.

Count as a legal ball (same ball/over logic).

For extra:

Increment extras and team total.

Do not increment ball count (like a wide/no-ball).

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Choose the batsman number who got out.

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Increment wickets.

Count as a legal ball (same ball/over logic).

For extra:

Increment extras and team total.

Do not increment ball count (like a wide/no-ball).

Objective:

To simulate a cricket scoreboard using C by tracking player and team performance ball-by-ball.

Data Structures:

Player struct: stores individual batting details.

Team struct: stores team name, array of players, total runs, wickets, overs, balls, and extras.

OUTPUT

```
shreshthumangshreshth@shreshth-Air:exp2 % ./cricket
% LIVE CHICKEN SCOREBOARD ▶

■ TIMINGS 1 - Team1 Batting
Enter 0-6 for runs, 7 for wicket

Team1: 0/0 (0.0 ov)
Striker: Rohit | Non-striker: Gill
Bowler: Starc

Next ball? 5
Rohit scores 5!
Strike rotates!

Team1: 5/0 (0.2 ov)
Striker: Gill | Non-striker: Rohit
Bowler: Starc

Next ball? 3
Gill scores 3!
Strike rotates!

Team1: 8/0 (0.3 ov)
Striker: Rohit | Non-striker: Gill
Bowler: Starc

Next ball? 4
Rohit scores 4!

Team1: 12/0 (0.5 ov)
Striker: Rohit | Non-striker: Gill
Bowler: Starc

Next ball? 5
Rohit scores 5!
Strike rotates!

Team1: 17/0 (0.7 ov)
Striker: Gill | Non-striker: Rohit
Bowler: Starc

Next ball? 4
Gill scores 4!

Team1: 21/0 (0.8 ov)
Striker: Gill | Non-striker: Rohit
Bowler: Starc

Next ball? 6
Gill scores 6!

Team1: 27/0 (1.0 ov)
Striker: Gill | Non-striker: Rohit
Bowler: Starc

Next ball? 7
% WICKET! New batsman? ms dhoni.
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```
Team1: 27/1 (1.2 ov)
Striker: ms | Non-striker: Rohit
Bowler: Starc

Next ball? % WICKET! New batsman?
Team1: 27/2 (1.3 ov)
Striker: dhoni | Non-striker: Rohit
Bowler: Starc

Next ball? 5
dhoni scores 5!
Strike rotates!

Team1: 32/2 (1.5 ov)
Striker: Rohit | Non-striker: dhoni
Bowler: Starc

Next ball? 5
Rohit scores 5!
Strike rotates!

Team1: 37/2 (1.7 ov)
Striker: dhoni | Non-striker: Rohit
Bowler: Starc

Next ball? 3
dhoni scores 3!
Strike rotates!

Team1: 40/2 (1.8 ov)
Striker: Rohit | Non-striker: dhoni
Bowler: Starc

Next ball? 4
Rohit scores 4!

Team1: 44/2 (2.0 ov)
Striker: Rohit | Non-striker: dhoni
Bowler: Starc

Next ball? 5
Rohit scores 5!
Strike rotates!

Team1: 49/2 (2.2 ov)
Striker: dhoni | Non-striker: Rohit
Bowler: Starc

Next ball? 2
dhoni scores 2!

Team1: 51/2 (2.3 ov)
Striker: dhoni | Non-striker: Rohit
Bowler: Starc

Next ball? 3
dhoni scores 3!
Strike rotates!
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Team1: 54/2 (2.5 ov)
Striker: Rohit | Non-striker: dhoni
Bowler: Starc

Next ball? 4
Rohit scores 4!

Team1: 58/2 (2.7 ov)
Striker: Rohit | Non-striker: dhoni
Bowler: Starc

Next ball? 5
Rohit scores 5!
Strike rotates!

Team1: 63/2 (2.8 ov)
Striker: dhoni | Non-striker: Rohit
Bowler: Starc

Next ball? 3
dhoni scores 3!
Strike rotates!

Team1: 66/2 (3.0 ov)
Striker: Kohli | Non-striker: dhoni
Bowler: Starc

Next ball? 6
Rohit scores 6!

Team1: 72/2 (3.2 ov)
Striker: Rohit | Non-striker: dhoni
Bowler: Starc

Next ball? 5
Rohit scores 5!
Strike rotates!

Team1: 77/2 (3.3 ov)
Striker: dhoni | Non-striker: Rohit
Bowler: Starc

Next ball? 6
dhoni scores 6!

Team1: 83/2 (3.5 ov)
Striker: dhoni | Non-striker: Rohit
Bowler: Starc

Next ball? 6
dhoni scores 6!

Team1: 89/2 (3.7 ov)
Striker: dhoni | Non-striker: Rohit
Bowler: Starc

Next ball? 5
dhoni scores 5!

Strike rotates!

Team1: 94/2 (3.8 ov)
Striker: Rohit | Non-striker: dhoni
Bowler: Starc

Next ball? 6
Rohit scores 6!

= INNINGS 1 END: Team1 100/2
w Team2 needs 101 to win

■ INNINGS 2 - Team2 Chasing
Team2: 0/0 (0.0 ov) Need: 101
Striker: Kohli | Non-striker: Jadeja

Next ball? 5
Team2: 5/0 (0.2 ov) Need: 96
Striker: Jadeja | Non-striker: Kohli

Next ball? 6
Team2: 11/0 (0.3 ov) Need: 99
Striker: Jadeja | Non-striker: Kohli

Next ball? 5
Team2: 16/0 (0.5 ov) Need: 85
Striker: Kohli | Non-striker: Jadeja

Next ball? 6
Team2: 22/0 (0.7 ov) Need: 79
Striker: Kohli | Non-striker: Jadeja

Next ball? 5
Team2: 27/0 (0.8 ov) Need: 74
Striker: Jadeja | Non-striker: Kohli

Next ball? 4
Team2: 31/0 (1.0 ov) Need: 70
Striker: Jadeja | Non-striker: Kohli

Next ball? 4
Team2: 35/0 (1.2 ov) Need: 66
Striker: Jadeja | Non-striker: Kohli

Next ball? 4
Team2: 39/0 (1.3 ov) Need: 62
Striker: Jadeja | Non-striker: Kohli

Next ball? 4
Team2: 43/0 (1.5 ov) Need: 59
Striker: Jadeja | Non-striker: Kohli

Next ball? 4
Team2: 47/0 (1.7 ov) Need: 54
Striker: Jadeja | Non-striker: Kohli

Next ball? 4
Team2: 51/0 (1.8 ov) Need: 50
Striker: Jadeja | Non-striker: Kohli

Striker: Jadeja | Non-striker: Kohli

Next ball? 4

Team2: 55/0 (2.0 ov) Need: 46

Striker: Jadeja | Non-striker: Kohli

Next ball? 6

Team2: 61/0 (2.2 ov) Need: 40

Striker: Jadeja | Non-striker: Kohli

Next ball? 7

New batsman? surya

Team2: 61/1 (2.3 ov) Need: 40

Striker: surya | Non-striker: Kohli

Next ball? 6

Team2: 67/1 (2.5 ov) Need: 34

Striker: surya | Non-striker: Kohli

Next ball? 3

Team2: 70/1 (2.7 ov) Need: 31

Striker: Kohli | Non-striker: surya

Next ball? 4

Team2: 74/1 (2.8 ov) Need: 27

Striker: Kohli | Non-striker: surya

Next ball? 5

Team2: 79/1 (3.0 ov) Need: 22

Striker: surya | Non-striker: Kohli

Next ball? 2

Team2: 81/1 (3.2 ov) Need: 20

Striker: surya | Non-striker: Kohli

Next ball? 2

Team2: 83/1 (3.3 ov) Need: 18

Striker: surya | Non-striker: Kohli

Next ball? 4

Team2: 87/1 (3.5 ov) Need: 14

Striker: surya | Non-striker: Kohli

Next ball? 5

Team2: 92/1 (3.7 ov) Need: 9

Striker: Kohli | Non-striker: surya

Next ball?

5

Team2: 97/1 (3.8 ov) Need: 4

Striker: surya | Non-striker: Kohli

Next ball? 4

🏆 MATCH OVER! 🏆

Team1: 100/2

Team2: 101/1

🏆 Team2 WINS by 2 wickets!