

Today's agenda

Search



Cricket Management System with DLS



Our project

- A live cricket scorecard Management system
- DLS score Calculator
 - a) When it rains during 1st inning.
 - b) When it rains during the innings break.



Presenters



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Functions used

- Pointers
- Recursion
- Struct
- Conditional statements
- Goto
- Arrays



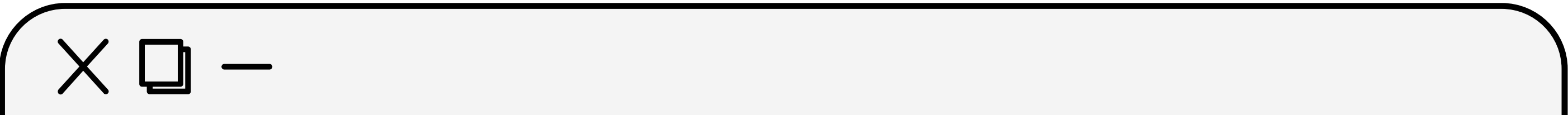
Our USP



- Live Score Tracking of Every single Ball
- Striker change After every over
- Separate columns to show Stats of both bowling and batting team

Save

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```
NOTE: Use this program when you already know
which team is going to BAT first.
```

```
1.Create new scoresheet.
2.DLS when rain stops play after 1st innings.
3.DLS when rain stops play in between 1st innings.
4.Exit.
Enter your choice(1 , 2 or 3):
```

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PLAYER DETAILS

Enter BATTING team players names(11 players):

Batter 1:

PLAYER DETAILS

Enter BATTING team players names(11 players):

Batter 1: Ashutosh

Batter 2: Abhay

Batter 3: Mohit

Batter 4: Rahul

Batter 5: Virat

Batter 6: Rohit

Batter 7: Hardik

Batter 8: Bumrah

Batter 9: Deepak

Batter 10: Jadeja

Batter 11: Aswin

PLAYER DETAILS

Enter BOWLING team players names(11 players):

Player 1: Mithali

Player 2: Sikha

Player 3: Veda

Player 4: Anjum

Player 5: Smriti

Player 6: Shubhangi

Player 7: Jhulan

Player 8: Neetu

Player 9: Harmanpreet

Player 10: Tanya

Player 11: Jamimah

ENTER NUMBER OF OVERS: 20

BATTING TEAM STATS:

1	Ashutosh	:	0	Runs	0	Balls	NOT-OUT	*Strike
2	Abhay	:	0	Runs	0	Balls	NOT-OUT	*Non Strike
3	Mohit	:	0	Runs	0	Balls	NOT-OUT	
4	Rahul	:	0	Runs	0	Balls	NOT-OUT	
5	Virat	:	0	Runs	0	Balls	NOT-OUT	
6	Rohit	:	0	Runs	0	Balls	NOT-OUT	
7	Hardik	:	0	Runs	0	Balls	NOT-OUT	
8	Bumrah	:	0	Runs	0	Balls	NOT-OUT	
9	Deepak	:	0	Runs	0	Balls	NOT-OUT	
10	Jadeja	:	0	Runs	0	Balls	NOT-OUT	
11	Aswin	:	0	Runs	0	Balls	NOT-OUT	

BOWLING TEAM STATS:

1	Mithali	:	0	Balls	0	Wickets
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OVERS: 0.0

SCORE: 0

Enter Ball(1-6 runs, 'w' for out):

BATTING TEAM STATS:

1	Ashutosh	:	6	Runs	1	Balls	NOT-OUT	*Strike
2	Abhay	:	0	Runs	0	Balls	NOT-OUT	*Non Strike
3	Mohit	:	0	Runs	0	Balls	NOT-OUT	
4	Rahul	:	0	Runs	0	Balls	NOT-OUT	
5	Virat	:	0	Runs	0	Balls	NOT-OUT	
6	Rohit	:	0	Runs	0	Balls	NOT-OUT	
7	Hardik	:	0	Runs	0	Balls	NOT-OUT	
8	Bumrah	:	0	Runs	0	Balls	NOT-OUT	
9	Deepak	:	0	Runs	0	Balls	NOT-OUT	
10	Jadeja	:	0	Runs	0	Balls	NOT-OUT	
11	Aswin	:	0	Runs	0	Balls	NOT-OUT	

BOWLING TEAM STATS:

1	Mithali	:	1	Balls	0	Wickets
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OVERS: 0.1

SCORE: 6

Enter Ball(1-6 runs, 'w' for out): 6

BATTING TEAM STATS:

1	Ashutosh	:	39	Runs	12	Balls	NOT-OUT	*Strike
2	Abhay	:	16	Runs	6	Balls	NOT-OUT	*Non Strike
3	Mohit	:	0	Runs	0	Balls	NOT-OUT	
4	Rahul	:	0	Runs	0	Balls	NOT-OUT	
5	Virat	:	0	Runs	0	Balls	NOT-OUT	
6	Rohit	:	0	Runs	0	Balls	NOT-OUT	
7	Hardik	:	0	Runs	0	Balls	NOT-OUT	
8	Bumrah	:	0	Runs	0	Balls	NOT-OUT	
9	Deepak	:	0	Runs	0	Balls	NOT-OUT	
10	Jadeja	:	0	Runs	0	Balls	NOT-OUT	
11	Aswin	:	0	Runs	0	Balls	NOT-OUT	

BOWLING TEAM STATS:

1	Mithali	:	6	Balls	0	Wickets
2	Sikha	:	6	Balls	0	Wickets
3	Vedaa	:	6	Balls	0	Wickets
6	Jhulan	:	0	Balls	0	Wickets

OVERS: 3.0

SCORE: 55

FINAL SCORESHEET

BATTING TEAM STATS:

1	Ashutosh	:	8	Runs	3	Balls	OUT	
2	Abhay	:	1	Runs	1	Balls	NOT-OUT	*Strike
3	Mohit	:	17	Runs	8	Balls	NOT-OUT	*Non Strike
4	Rahul	:	0	Runs	0	Balls	NOT-OUT	
5	Virat	:	0	Runs	0	Balls	NOT-OUT	
6	Rohit	:	0	Runs	0	Balls	NOT-OUT	
7	Hardik	:	0	Runs	0	Balls	NOT-OUT	
8	Bumrah	:	0	Runs	0	Balls	NOT-OUT	
9	Deepak	:	0	Runs	0	Balls	NOT-OUT	
10	Jadeja	:	0	Runs	0	Balls	NOT-OUT	
11	Ashwin	:	0	Runs	0	Balls	NOT-OUT	

BOWLING TEAM STATS:

2	Sikha	:	6	Balls	0	Wickets
11	Jamimah	:	6	Balls	1	Wickets

OVERS: 2.0

SCORE: 28



DIS(The Duckworth-Lewis method)



What is DLS? How it is calculated?

- The *Duckworth-Lewis method* (often written as D/L method) is a mathematical formulation designed to calculate the target score for the team batting second in a limited-overs cricket match interrupted by weather or other circumstances.
- To calculate a target, the formula may simply be expressed as:
Team 2's par score = Team 1's score (Team 2's resources/Team 1's resources).
- During the match after the interruption, there are only two factors remains with the team for the calculation of this method.
 - Remaining Overs
 - Remaining Wickets
- On the basis of these two resources, Frank Duckworth and Tony Lewis have prepared a chart which suggests that how many resources are left with the batting side in different situations

Resources Table For T20 Cricket

Overs Available	Wickets Lost									
	0	1	2	3	4	5	6	7	8	9
20	100.0	96.9	93.0	87.9	81.3	72.2	59.9	44.8	29.7	17.6
19	95.6	90.9	87.7	83.0	76.9	68.3	56.5	42.0	27.2	15.3
18	91.7	86.7	82.9	78.7	73.2	65.4	54.2	40.2	25.7	13.9
17	87.7	82.3	78.9	73.8	69.7	62.8	52.2	38.7	24.6	12.8
16	83.5	78.2	75.3	70.5	66.4	60.2	50.3	37.4	23.5	12.0
15	79.2	74.3	70.9	66.9	62.6	57.4	48.4	36.2	22.7	11.2
14	75.1	70.7	67.3	63.7	59.3	54.6	46.4	35.0	21.8	10.5
13	71.5	67.4	63.6	60.3	56.2	51.5	44.3	33.8	21.0	9.8
12	68.3	63.7	60.2	56.8	52.9	47.5	41.9	32.6	20.2	9.1
11	65.0	59.9	56.6	53.3	49.7	43.9	39.3	31.3	19.4	8.5
10	61.3	56.0	52.6	50.1	46.0	40.8	36.1	30.0	18.6	7.9
9	57.9	52.3	47.9	46.1	42.5	37.8	33.1	28.3	17.7	7.2
8	54.0	48.3	44.3	41.7	38.9	34.9	30.2	26.1	16.7	6.6
7	49.3	44.2	40.2	37.4	35.4	32.1	27.2	23.4	15.7	5.9
6	41.7	38.5	35.7	33.0	31.7	29.0	24.2	20.0	14.5	5.2
5	36.2	33.4	31.0	28.6	27.3	25.5	21.5	17.0	12.2	4.4
4	30.8	28.0	26.1	24.1	22.4	20.7	18.3	14.2	10.0	3.5
3	25.4	22.8	21.1	19.4	17.7	16.5	14.4	11.6	7.9	2.5
2	19.7	17.2	15.5	14.1	12.7	11.9	10.6	9.3	6.2	1.6
1	13.7	11.3	9.7	8.5	7.3	6.7	6.0	5.2	4.2	0.9

DLS Score

(When rain stops play after 1st innings)

- **Example : India 212/8 after 20 overs (Total overs = 20). Rain stopped play. Revised target for England in 13 overs ?**

	RUNS	RESOURCES
INDIA	212	100%
ENGLAND	?	71.5%

Par Score = $(212 \times 71.5)/100 = 151.58 = 151$

Runs required to win the match in 20 overs = 152

DUCKWORTH LEWIS STERN METHOD

T20 CRICKET

Enter score of team A after 20 overs : 212

RAIN STOPS PLAY

Match reduced to how many overs : 13

Runs required by team B to win the match in 13 OVERS is 152.00 :

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DLS Score

(When rain comes in between 1st innings)

❑ Example : India 100/2 after 10 overs (Total overs = 20). Rain stopped play. Revised target for England in 20 overs ?

	RUNS	RESOURCES
INDIA	100	47.4%
ENGLAND	?	100%

Par Score = $(100 \times 100) / 47.4 = 210.97 = 210$

Runs required to win the match in 20 overs = 211

****DUCKWORTH LEWIS STERN METHOD****

T20 CRICKET

Enter number of overs played by team A : 11

Enter runs scored by team A : 110

Enter wickets lost by team A : 1

RAIN STOPS PLAY

Runs required by team B to win the match in 20 OVERS is 231.00 :

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Thank you!