Indian Premier League T20 Analysis

Data Science Professional Certificate Program from HarvardX - CYO

Riaz Mohamed Vellamparambil

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Introduction

This is the submission for the choose-your-own project for the Harvard's multi-part Data Science Professional Certificate series. The goal of this project is to rank players and predict the winner of a match. T20 is a modern format of the original game of cricket where each ball and strike count. A team can acquire players through any of the three ways: the annual player auction, trading players with other teams during the trading windows, and signing replacements for unavailable players. Players sign up for the auction and also set their base price, and are bought by the franchise that bids the highest for them.

About Cricket

https://en.wikipedia.org/wiki/Cricket https://en.wikipedia.org/wiki/Indian Premier League

Data Set

 $IPL\ ball\ by\ ball\ https://www.kaggle.com/patrickb1912/ipl-complete-dataset-20082020?select=IPL+Ball-by-Ball+2008-2020.csv$

 $IPL\ Matches\ https://www.kaggle.com/patrickb1912/ipl-complete-dataset-20082020?select=IPL+Matches+2008-2020.csv$

Executive Summary:

The goal of this project is to rank players by performance. This gives the IPL teams a pool of players as per caliber from which to pick from. We will also build a model to predict the winner of a match.

Steps of Analysis

- Data Preparation We will load the data,
- Data Exploration We will explore the data, plot histograms, create tables and graphs , As part of the data exploration process we will look at three key stats. Bowler Stats, Batsmen Stats and Team Stats
- Modeling We Will create two Models , one to create a pool of playes teams can choose from and predict match winner
- Conclusion We will summarize the results of modeling

Data Preparation

Install and load libraries and MovieLens Dataset To install the required packages, we use if(!require and load the packages from http://cran.us.r-project.org. Load Libraries and the IPL dataset

Import data sets from kaggle into R (I have downloaded the data from kaggle to my github repository)

We will now inspect the data set to view column names

Lets check how the data looks in the two data sets

```
##
    [1] "id"
                            "inning"
                                                "over"
                                                                     "ball"
    [5] "batsman"
                            "non_striker"
                                                "bowler"
                                                                     "batsman_runs"
##
    [9] "extra runs"
                            "total runs"
                                                "non boundary"
                                                                     "is wicket"
                            "player_dismissed" "fielder"
       "dismissal_kind"
                                                                     "extras_type"
  [13]
   [17] "batting_team"
                            "bowling_team"
    [1] "id"
                           "city"
                                              "date"
                                                                  "player of match"
##
    [5] "venue"
                           "neutral_venue"
                                              "team1"
                                                                 "team2"
    [9]
       "toss winner"
                           "toss decision"
                                              "winner"
                                                                 "result"
                           "eliminator"
                                                                 "umpire1"
## [13]
       "result_margin"
                                              "method"
  [17] "umpire2"
##
                              date player_of_match
         id
                   city
             Bangalore 2008-04-18
## 1 335982
                                        BB McCullum
## 2 335983 Chandigarh 2008-04-19
                                         MEK Hussey
## 3 335984
                 Delhi 2008-04-19
                                        MF Maharoof
## 4 335985
                 Mumbai 2008-04-20
                                         MV Boucher
               Kolkata 2008-04-20
## 5 335986
                                          DJ Hussey
## 6 335987
                 Jaipur 2008-04-21
                                          SR Watson
##
                                            venue neutral_venue
## 1
                                                               0
                           M Chinnaswamy Stadium
## 2 Punjab Cricket Association Stadium, Mohali
                                                               0
## 3
                                Feroz Shah Kotla
                                                               0
## 4
                                Wankhede Stadium
                                                               0
## 5
                                     Eden Gardens
                                                               0
## 6
                          Sawai Mansingh Stadium
##
                            team1
                                                          team2
## 1 Royal Challengers Bangalore
                                         Kolkata Knight Riders
## 2
                 Kings XI Punjab
                                           Chennai Super Kings
## 3
                 Delhi Daredevils
                                              Rajasthan Royals
## 4
                   Mumbai Indians Royal Challengers Bangalore
## 5
           Kolkata Knight Riders
                                               Deccan Chargers
## 6
                 Rajasthan Royals
                                               Kings XI Punjab
##
                      toss_winner toss_decision
                                                                        winner
                                                                               result.
## 1 Royal Challengers Bangalore
                                           field
                                                        Kolkata Knight Riders
                                                                                  runs
                                                          Chennai Super Kings
## 2
             Chennai Super Kings
                                             bat
                                                                                  runs
## 3
                 Rajasthan Royals
                                                             Delhi Daredevils wickets
                                             bat
## 4
                   Mumbai Indians
                                             bat Royal Challengers Bangalore wickets
## 5
                  Deccan Chargers
                                                        Kolkata Knight Riders wickets
                                             bat
## 6
                 Kings XI Punjab
                                             bat
                                                             Rajasthan Royals wickets
     result margin eliminator method
                                                         umpire2
##
                                         umpire1
## 1
               140
                             M
                                  <NA> Asad Rauf
                                                    RE Koertzen
## 2
                 33
                                  <NA> MR Benson
                                                     SL Shastri
## 3
                  9
                             N
                                  <NA> Aleem Dar GA Pratapkumar
```

```
## 4
                                        SJ Davis
                                                       DJ Harper
## 5
                  5
                              N
                                  <NA> BF Bowden
                                                     K Hariharan
## 6
                  6
                              N
                                  <NA> Aleem Dar
                                                       RB Tiffin
##
         id inning over ball
                                   batsman non_striker
                                                            bowler batsman_runs
## 1 335982
                  1
                       6
                             5
                                RT Ponting BB McCullum AA Noffke
                                                                               1
  2 335982
                       6
                             6 BB McCullum RT Ponting AA Noffke
##
                  1
                                                                               1
## 3 335982
                       7
                                                                               0
                  1
                             1 BB McCullum
                                            RT Ponting
                                                            Z Khan
                       7
## 4 335982
                  1
                             2 BB McCullum
                                            RT Ponting
                                                            Z Khan
                                                                               1
## 5 335982
                  1
                       7
                             3
                                RT Ponting BB McCullum
                                                            Z Khan
                                                                               1
## 6 335982
                  1
                       7
                             4 BB McCullum RT Ponting
                                                            Z Khan
                                                                               1
##
     extra_runs total_runs non_boundary is_wicket dismissal_kind player_dismissed
## 1
               0
                           1
                                        0
                                                   0
                                                                <NA>
                                                                                   <NA>
## 2
               0
                          1
                                        0
                                                   0
                                                                <NA>
                                                                                   <NA>
## 3
               0
                          0
                                        0
                                                   0
                                                                <NA>
                                                                                   <NA>
## 4
               0
                           1
                                        0
                                                   0
                                                                <NA>
                                                                                   <NA>
               0
## 5
                           1
                                        0
                                                   0
                                                                <NA>
                                                                                   <NA>
## 6
               0
                           1
                                        0
                                                   0
                                                                <NA>
                                                                                   <NA>
                                    batting_team
     fielder extras_type
                                                                  bowling_team
## 1
        <NA>
                     <NA> Kolkata Knight Riders Royal Challengers Bangalore
## 2
                     <NA> Kolkata Knight Riders Royal Challengers Bangalore
        <NA>
## 3
        <NA>
                     <NA> Kolkata Knight Riders Royal Challengers Bangalore
                     <NA> Kolkata Knight Riders Royal Challengers Bangalore
## 4
        <NA>
                     <NA> Kolkata Knight Riders Royal Challengers Bangalore
## 5
        <NA>
                     <NA> Kolkata Knight Riders Royal Challengers Bangalore
## 6
        <NA>
```

The data matches data set shows all matches played between 2008 and 2020 between teams with a uique match id , we also see have other data that are described by each colum in the matches dataset. The ball_by_ball data set has each delivery bowled in the ipl matches and the match id corresponned to the match id in the matches dataset. An over consists of 6 deliveries by a bowler

Let us check the data set for any anamolies, eg. duplicates, spellings etc. For this we will use the Factor function. Factor is a data structure used for fields that takes only predefined, finite number of values (categorical data). For example: a data field such as marital status may contain only values from single, married, separated, divorced, or widowed.

```
##
    [1]
       "Chennai Super Kings"
                                        "Deccan Chargers"
       "Delhi Capitals"
                                        "Delhi Daredevils"
##
    [3]
##
    [5]
        "Gujarat Lions"
                                        "Kings XI Punjab"
        "Kochi Tuskers Kerala"
                                        "Kolkata Knight Riders"
##
    [9]
        "Mumbai Indians"
                                        "Pune Warriors"
##
   [11]
        "Rajasthan Royals"
                                        "Rising Pune Supergiant"
##
   [13]
        "Rising Pune Supergiants"
                                        "Royal Challengers Bangalore"
   [15]
        "Sunrisers Hyderabad"
                                        "Deccan Chargers"
##
    [1]
       "Chennai Super Kings"
    [3]
        "Delhi Capitals"
                                        "Delhi Daredevils"
##
        "Gujarat Lions"
                                        "Kings XI Punjab"
##
    [5]
       "Kochi Tuskers Kerala"
                                        "Kolkata Knight Riders"
##
    [9] "Mumbai Indians"
                                        "Pune Warriors"
                                        "Rising Pune Supergiant"
##
   [11]
        "Rajasthan Royals"
                                        "Royal Challengers Bangalore"
        "Rising Pune Supergiants"
## [15] "Sunrisers Hyderabad"
```

The following are the teams that play the IPL currently Chennai Super Kings, Delhi Capitals, Gujarat Titans, Kolkata Knight Riders, Lucknow Super Giants, Mumbai Indians, Punjab Kings, Rajasthan Royals, Royal Challengers Bangalore, Sunrisers Hyderabad. We will still need to keep the other teams that were playing the IPL previously to get the top players so the pool from which the teams can choose from is bigger.

Let is now conditionally replace the anomalies we see in the data

```
##
    [1] "Chennai Super Kings"
                                        "Deccan Chargers"
    [3] "Delhi Capitals"
##
                                        "Gujarat Titans"
##
    [5] "Kochi Tuskers Kerala"
                                        "Kolkata Knight Riders"
    [7] "Lucknow Super Giants"
                                        "Mumbai Indians"
##
   [9] "Punjab Kings"
                                        "Rajasthan Royals"
##
## [11] "Royal Challengers Bangalore"
                                       "Sunrisers Hyderabad"
    [1] "Chennai Super Kings"
                                        "Deccan Chargers"
##
    [3] "Delhi Capitals"
                                        "Gujarat Titans"
##
    [5]
       "Kochi Tuskers Kerala"
                                        "Kolkata Knight Riders"
##
    [7] "Lucknow Super Giants"
                                        "Mumbai Indians"
    [9] "Punjab Kings"
                                        "Rajasthan Royals"
## [11] "Royal Challengers Bangalore" "Sunrisers Hyderabad"
```

Let us check if the same type of errors exist in "matches" dataset also for team1, team2, winner, toss_winner and venue variables.

```
[1] "Barabati Stadium"
##
##
    [2] "Brabourne Stadium"
##
   [3] "Buffalo Park"
    [4] "De Beers Diamond Oval"
##
       "Dr DY Patil Sports Academy"
##
    [5]
    [6] "Dr. Y.S. Rajasekhara Reddy ACA-VDCA Cricket Stadium"
##
##
    [7] "Dubai International Cricket Stadium"
    [8] "Eden Gardens"
##
##
   [9]
       "Feroz Shah Kotla"
## [10] "Green Park"
## [11] "Himachal Pradesh Cricket Association Stadium"
## [12] "Holkar Cricket Stadium"
## [13] "JSCA International Stadium Complex"
## [14] "Kingsmead"
## [15] "M Chinnaswamy Stadium"
## [16]
       "M.Chinnaswamy Stadium"
## [17]
       "MA Chidambaram Stadium, Chepauk"
## [18] "Maharashtra Cricket Association Stadium"
## [19] "Nehru Stadium"
## [20] "New Wanderers Stadium"
## [21] "Newlands"
## [22] "OUTsurance Oval"
  [23] "Punjab Cricket Association IS Bindra Stadium, Mohali"
## [24] "Punjab Cricket Association Stadium, Mohali"
## [25] "Rajiv Gandhi International Stadium, Uppal"
## [26] "Sardar Patel Stadium, Motera"
## [27] "Saurashtra Cricket Association Stadium"
## [28] "Sawai Mansingh Stadium"
## [29] "Shaheed Veer Narayan Singh International Stadium"
## [30] "Sharjah Cricket Stadium"
```

```
## [32] "St George's Park"
```

[31] "Sheikh Zayed Stadium"

[33] "Subrata Roy Sahara Stadium"

[34] "SuperSport Park"

[35] "Vidarbha Cricket Association Stadium, Jamtha"

[36] "Wankhede Stadium"

- [1] "Barabati Stadium"
- [2] "Brabourne Stadium" ##
- [3] "Buffalo Park"
- ## [4] "De Beers Diamond Oval"
- [5] "Dr DY Patil Sports Academy"
- [6] "Dr. Y.S. Rajasekhara Reddy ACA-VDCA Cricket Stadium" ##
- ## [7] "Dubai International Cricket Stadium"
- ## [8] "Eden Gardens"
- ## [9] "Feroz Shah Kotla"
- ## [10] "Green Park"
- ## [11] "Himachal Pradesh Cricket Association Stadium"
- ## [12] "Holkar Cricket Stadium"
- ## [13] "JSCA International Stadium Complex"
- ## [14] "Kingsmead"
- ## [15] "M. A. Chidambaram Stadium"
- ## [16] "M.Chinnaswamy Stadium"
- ## [17] "Maharashtra Cricket Association Stadium"
- ## [18] "Nehru Stadium"
- ## [19] "New Wanderers Stadium"
- ## [20] "Newlands"
- ## [21] "OUTsurance Oval"
- ## [22] "Punjab Cricket Association IS Bindra Stadium, Mohali"
- ## [23] "Punjab Cricket Association Stadium, Mohali"
- ## [24] "Rajiv Gandhi International Stadium, Uppal"
- ## [25] "Sardar Patel Stadium, Motera"
- ## [26] "Saurashtra Cricket Association Stadium"
- ## [27] "Sawai Mansingh Stadium"
- ## [28] "Shaheed Veer Narayan Singh International Stadium"
- ## [29] "Sharjah Cricket Stadium"
- ## [30] "Sheikh Zayed Stadium"
- ## [31] "St George's Park"
- ## [32] "Subrata Roy Sahara Stadium"
- ## [33] "SuperSport Park"
- ## [34] "Vidarbha Cricket Association Stadium, Jamtha"
- ## [35] "Wankhede Stadium"
- [1] "Chennai Super Kings" "Deccan Chargers" ## [3] "Delhi Capitals" "Delhi Daredevils" ## [5] "Gujarat Lions" "Kings XI Punjab"
- ## [7] "Kochi Tuskers Kerala" "Kolkata Knight Riders"
- ## [9] "Mumbai Indians" "Pune Warriors"
- ## [11] "Rajasthan Royals" "Rising Pune Supergiant" ## [13] "Rising Pune Supergiants" "Royal Challengers Bangalore"
- ## [15] "Sunrisers Hyderabad"
- [1] "Chennai Super Kings" "Deccan Chargers"

## ## ## ## ## ##	[5] [7] [9] [11] [13]	"Delhi Capitals" "Gujarat Lions" "Kochi Tuskers Kerala" "Mumbai Indians" "Rajasthan Royals" "Rising Pune Supergiants" "Sunrisers Hyderabad"	"Delhi Daredevils" "Kings XI Punjab" "Kolkata Knight Riders" "Pune Warriors" "Rising Pune Supergiant" "Royal Challengers Bangalore"
##	[1]	"Chennai Super Kings"	"Deccan Chargers"
##	[3]	"Delhi Capitals"	"Delhi Daredevils"
##		3	"Kings XI Punjab"
##			"Kolkata Knight Riders"
##		"Mumbai Indians"	"Pune Warriors"
##		"Rajasthan Royals"	"Rising Pune Supergiant"
		"Rising Pune Supergiants" "Sunrisers Hyderabad"	"Royal Challengers Bangalore"
	[10]	Sami isois nyaorasaa	
##	[1]	"Chennai Super Kings"	"Deccan Chargers"
		UD-11-: 0:+-1-U	"Delhi Daredevils"
##	[3]	"Delhi Capitals"	DOINI DUIGUOVIID
## ##		-	"Kings XI Punjab"
## ##	[5] [7]	"Gujarat Lions" "Kochi Tuskers Kerala"	"Kings XI Punjab" "Kolkata Knight Riders"
## ## ##	[5] [7] [9]	"Gujarat Lions" "Kochi Tuskers Kerala" "Mumbai Indians"	"Kings XI Punjab" "Kolkata Knight Riders" "Pune Warriors"
## ## ## ##	[5] [7] [9] [11]	"Gujarat Lions" "Kochi Tuskers Kerala" "Mumbai Indians" "Rajasthan Royals"	"Kings XI Punjab" "Kolkata Knight Riders" "Pune Warriors" "Rising Pune Supergiant"
## ## ## ##	[5] [7] [9] [11] [13]	"Gujarat Lions" "Kochi Tuskers Kerala" "Mumbai Indians" "Rajasthan Royals" "Rising Pune Supergiants"	"Kings XI Punjab" "Kolkata Knight Riders" "Pune Warriors"
## ## ## ##	[5] [7] [9] [11] [13]	"Gujarat Lions" "Kochi Tuskers Kerala" "Mumbai Indians" "Rajasthan Royals"	"Kings XI Punjab" "Kolkata Knight Riders" "Pune Warriors" "Rising Pune Supergiant"
## ## ## ## ##	[5] [7] [9] [11] [13] [15]	"Gujarat Lions" "Kochi Tuskers Kerala" "Mumbai Indians" "Rajasthan Royals" "Rising Pune Supergiants" "Sunrisers Hyderabad"	"Kings XI Punjab" "Kolkata Knight Riders" "Pune Warriors" "Rising Pune Supergiant" "Royal Challengers Bangalore"
## ## ## ## ##	[5] [7] [9] [11] [13] [15]	"Gujarat Lions" "Kochi Tuskers Kerala" "Mumbai Indians" "Rajasthan Royals" "Rising Pune Supergiants" "Sunrisers Hyderabad" "Chennai Super Kings"	"Kings XI Punjab" "Kolkata Knight Riders" "Pune Warriors" "Rising Pune Supergiant" "Royal Challengers Bangalore" "Deccan Chargers"
## ## ## ## ##	[5] [7] [9] [11] [13] [15]	"Gujarat Lions" "Kochi Tuskers Kerala" "Mumbai Indians" "Rajasthan Royals" "Rising Pune Supergiants" "Sunrisers Hyderabad" "Chennai Super Kings" "Delhi Capitals"	"Kings XI Punjab" "Kolkata Knight Riders" "Pune Warriors" "Rising Pune Supergiant" "Royal Challengers Bangalore" "Deccan Chargers" "Gujarat Titans"
## ## ## ## ##	[5] [7] [9] [11] [13] [15] [1] [3] [5]	"Gujarat Lions" "Kochi Tuskers Kerala" "Mumbai Indians" "Rajasthan Royals" "Rising Pune Supergiants" "Sunrisers Hyderabad" "Chennai Super Kings" "Delhi Capitals" "Kochi Tuskers Kerala"	"Kings XI Punjab" "Kolkata Knight Riders" "Pune Warriors" "Rising Pune Supergiant" "Royal Challengers Bangalore" "Deccan Chargers"
## ## ## ## ## ##	[5] [7] [9] [11] [13] [15] [1] [3] [5] [7]	"Gujarat Lions" "Kochi Tuskers Kerala" "Mumbai Indians" "Rajasthan Royals" "Rising Pune Supergiants" "Sunrisers Hyderabad" "Chennai Super Kings" "Delhi Capitals"	"Kings XI Punjab" "Kolkata Knight Riders" "Pune Warriors" "Rising Pune Supergiant" "Royal Challengers Bangalore" "Deccan Chargers" "Gujarat Titans" "Kolkata Knight Riders"
## ## ## ## ## ##	[5] [7] [9] [11] [13] [15] [1] [3] [5] [7] [9]	"Gujarat Lions" "Kochi Tuskers Kerala" "Mumbai Indians" "Rajasthan Royals" "Rising Pune Supergiants" "Sunrisers Hyderabad" "Chennai Super Kings" "Delhi Capitals" "Kochi Tuskers Kerala" "Lucknow Super Giants"	"Kings XI Punjab" "Kolkata Knight Riders" "Pune Warriors" "Rising Pune Supergiant" "Royal Challengers Bangalore" "Deccan Chargers" "Gujarat Titans" "Kolkata Knight Riders" "Mumbai Indians" "Rajasthan Royals"

Methods & Analysis - Data Exploration & Results:

Let us start our exploration of data with finding out a few unique facts about our data.

```
## [1] 507

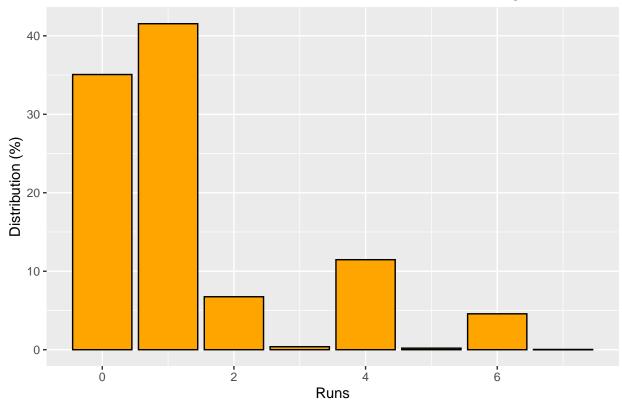
## venue teams matches_played noresults
## 1 35 12 816 4

## [1] 6616
```

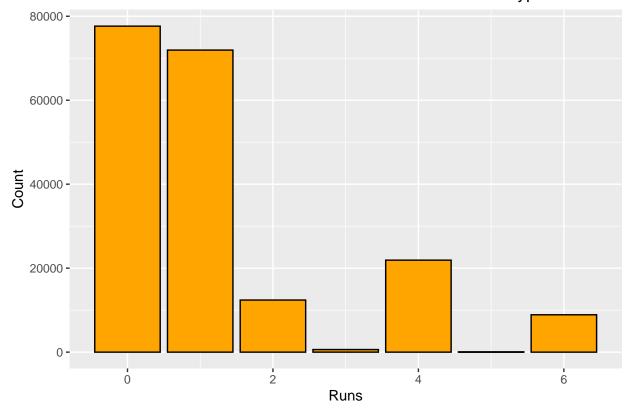
Conclusion: We see a total of 507 players in the ball_by_ball data set. We also have 35 distinct venues, a total of 12 teams, 816 matches played and 4 ended up in no results which means it was a draw. And a total of 6616 extras in wide and noballs. The reason are looking at wides and no balls is because the bowler has to bowl an extra ball for every noball or wide bowled.

Now let us go into further analysis and check how many times a different run was scored by a player. Runs are scored by batsmen and bowlers bowl deliveries.

Runs Percentage distribution



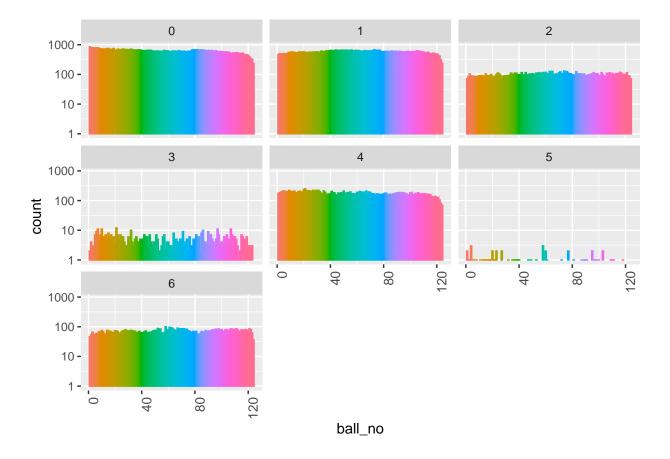
Run Type Vs Count



Conclusion: From the above visuals we do see that 7 runs is rare. So we will omit the 7 run. We also saw that there were about 6616 extras.

Lets us now look if there is a correlation between a ball and the type of run scored. There are 20 overs in a T20 match for each innings. Each over has 6 deliveries with a total of 120 deliveries. If we take the average number of extras we will find that there is about 4 deliveries in an innings.

```
## # A tibble: 791 x 3
   # Groups:
                ball_no [124]
##
      ball_no batsman_runs count
##
         <int>
                       <int> <int>
##
                            0
                                864
    1
             1
    2
                            1
                                468
##
             1
                            2
    3
                                 72
##
##
    4
                            3
                                  2
                            4
##
    5
                                176
##
    6
             1
                           5
                                  2
                            6
    7
             1
                                 46
##
             2
                            0
                                797
##
    8
             2
    9
##
                                504
             2
## 10
                                 85
## # ... with 781 more rows
```

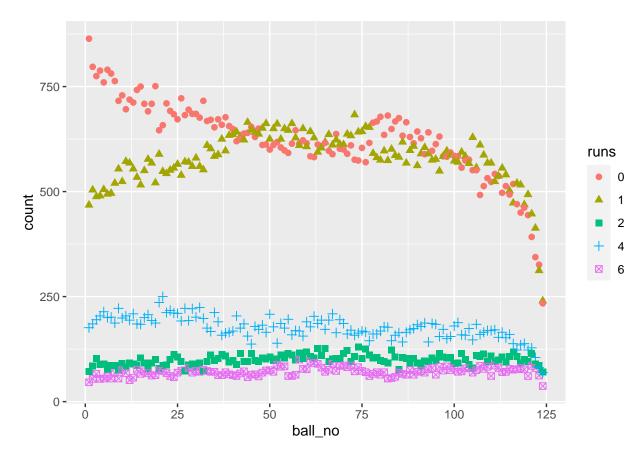


[1] -0.02449583

 ${f Conclusion:}$ From the visualization we see that there is no correlation between the delivery and the runs scored .

We can see that the number of no runs scored decreases as the iniings progresses. We also see the 1s and 2s are steady throughout the innings.

Most teams try to bat out their innings by stabilizing thoughtout the innings



Conclusion: From the visualization we see that 0s and 1's are the most prominent run types throughout the innings but are high in the first few overs and taper down towards the end of the innings. We also see the 4s and the 6's higher during both the initial part of the innings. This is because of the power play in T20 where the field is restricted.

Lets look at how players performed during the IPL. Like all games the MVP dictates the player capability. We will look at the player_of_match field to pick the top 25 playes in the IPL so far.

Palyer Statistics: Batsman

```
## # A tibble: 25 x 2
##
      mvp
                      player_of_match
##
      <chr>
                                 <int>
##
    1 AB de Villiers
                                    23
                                    22
##
    2 CH Gayle
    3 RG Sharma
                                    18
    4 DA Warner
##
                                    17
    5 MS Dhoni
                                    17
##
    6 SR Watson
                                    16
    7 YK Pathan
                                    16
##
    8 SK Raina
                                    14
   9 G Gambhir
                                    13
##
## 10 V Kohli
                                    13
## # ... with 15 more rows
```

All teams look for batsman who are hard hitters , who can score boundaries at every ball. Let us see who are the players with maximum boundaries

```
## # A tibble: 25 x 3
## # Groups:
               player [25]
##
      player
                      sixes fours
##
      <chr>
                      <int> <int>
##
    1 CH Gayle
                        349
                              810
   2 AB de Villiers
                        235
                              724
   3 MS Dhoni
                        216
##
                              613
##
    4 RG Sharma
                        214
                              911
##
   5 V Kohli
                        202 1055
   6 KA Pollard
                        198
                              572
   7 DA Warner
                        195
##
                              946
   8 SK Raina
                        194
                             1045
##
  9 SR Watson
                        190
                             1028
## 10 RV Uthappa
                        163
                              883
## # ... with 15 more rows
```

Let us look at the top 25 batsmen with the maximum strike rate (Runs scored vs deliveries faced). The higher the better

```
## # A tibble: 25 x 4
##
      player
                       runs_scored balls_faced strike_rate
      <chr>
##
                              <int>
                                           <int>
                                                        <dbl>
##
    1 B Stanlake
                                  5
                                               2
                                                         2.5
                                              19
                                                         2.05
##
    2 Umar Gul
                                 39
##
    3 RS Sodhi
                                  4
                                               2
                                                         2
    4 Shahid Afridi
                                 81
                                              46
                                                         1.76
                                  7
                                               4
##
    5 I Malhotra
                                                         1.75
    6 TU Deshpande
                                 21
                                              12
                                                         1.75
    7 AD Russell
                                             882
                                                         1.72
##
                               1517
##
    8 LJ Wright
                                106
                                              63
                                                         1.68
  9 Abdul Samad
                                111
                                              66
                                                         1.68
## 10 KMDN Kulasekara
                                  5
                                               3
                                                         1.67
## # ... with 15 more rows
```

Conclusion: From the above analysis we know that the top 25 playes with the maximum runs are also the top boundary hitters. Strike rate cannot be taken to look into the top players because it is dependent on the number of balls faced. The top 25 in strike rate do not figure in the top players.

Now that we have seen the batsmen let us also look at the top bowlers in the IPL. A bowler can be concluded as a good bowler by the number of wickets taken and their economy rate (the less number of runs an over)

Palyer Statistics: Bowler

```
## [1] "bowled" "caught" "caught and bowled"
## [4] "hit wicket" "lbw" "obstructing the field"
## [7] "retired hurt" "run out" "stumped"
```

Top bowlers with maximum number of wickets

##	# A tibble: 25 x 2	
##	player	total_wickets
##	<chr></chr>	<int></int>
##	1 SL Malinga	170
##	2 A Mishra	160
##	3 PP Chawla	156
##	4 DJ Bravo	153
##	5 Harbhajan Singh	150
##	6 R Ashwin	138
##	7 B Kumar	136
##	8 SP Narine	127
##	9 YS Chahal	121
##	10 UT Yadav	119
##	# with 15 more	rows

Bowlers who conceded maximum runs

```
## # A tibble: 25 x 3
     player
              runsconceded deliveries_bowled
     <chr>
##
                            <int>
                                              <int>
##
  1 PP Chawla
                             4196
                                               3285
  2 Harbhajan Singh
                                               3451
##
                             3868
  3 A Mishra
                             3788
                                               3233
## 4 DJ Bravo
                             3659
                                               2846
## 5 R Ashwin
                             3581
                                               3327
## 6 UT Yadav
                             3446
                                               2642
  7 RA Jadeja
                             3408
                                               2759
  8 SL Malinga
                             3193
                                               2974
## 9 B Kumar
                             3132
                                               2795
## 10 P Kumar
                             3106
                                               2637
## # ... with 15 more rows
```

Lets check for the bowlers with good economy rate, which is the runs conceded vs the deliveries bowled The lower the economy rate the better

##	# A tibble: 25 x	4		
##	player	runs_conceded	${\tt deliveries_bowled}$	economy_rate
##	<chr></chr>	<int></int>	<int></int>	<dbl></dbl>
##	1 AC Gilchrist	0	1	0
##	2 DA Warner	1	2	0.5
##	3 AS Roy	8	15	0.533
##	4 NB Singh	14	25	0.56
##	5 LA Carseldine	5	7	0.714
##	6 SS Mundhe	5	7	0.714

##	7 Sac	chin Baby	8	10	0.8
##	8 AM	Rahane	5	6	0.833
##	9 DJ	Thornely	38	44	0.864
##	10 SM	Harwood	61	67	0.910
##	#	with 15 more	rous		

Lets check for the bowlers with good strike rate, which is the wickets taken vs the deliveries bowled The lower the strike rate the better

##	# A tibble: 25 x	4		
##	player	total_delivery	${\tt total_wickets}$	strike_rate
##	<chr></chr>	<int></int>	<int></int>	<dbl></dbl>
##	1 AC Gilchrist	1	1	1
##	2 Sachin Baby	10	2	5
##	3 AM Rahane	6	1	6
##	4 LA Carseldine	7	1	7
##	5 SS Mundhe	7	1	7
##	6 DAJ Bracewell	25	3	8.33
##	7 AS Joseph	55	6	9.17
##	8 Shoaib Akhtar	46	5	9.2
##	9 D du Preez	43	4	10.8
##	10 R Ninan	36	3	12
##	# with 15 mos	re rows		

Conclusion: From the above analysis there are bowlers who show up in the top 25 because they have bowled lesser number of deliveries. If the total number of wickets are taken into consideration as compared to the higest wicket takers its a few and these would not matter. We can eliminate the bowler strike rate during modeling our algorithm.

Let is now see how the top batsmen contributed to the overall IPL totals

Conclusion: From the above analysis the top 25 batsmen contribute to 38% of the total runs in the IPL.

Let is now see how the top boowlers contributed to the overall IPL wickets

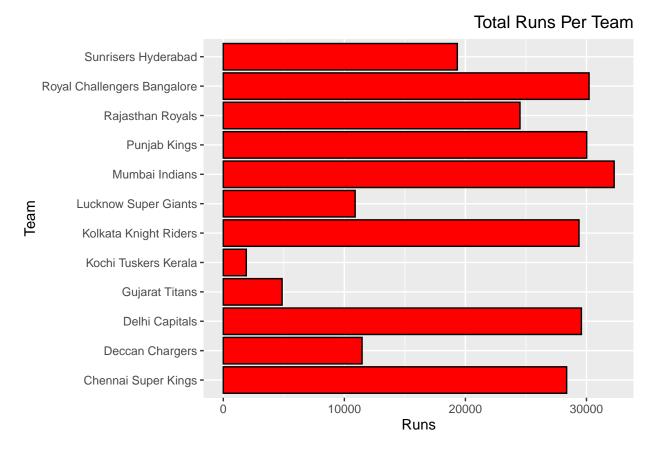
```
##
     overall_wickets
## 1
                9495
## # A tibble: 25 x 2
##
      player
                       total_wickets
##
      <chr>>
                               <int>
    1 SL Malinga
                                 170
##
##
    2 A Mishra
                                  160
   3 PP Chawla
##
                                  156
   4 DJ Bravo
                                 153
   5 Harbhajan Singh
                                 150
```

```
## 6 R Ashwin 138
## 7 B Kumar 136
## 8 SP Narine 127
## 9 YS Chahal 121
## 10 UT Yadav 119
## # ... with 15 more rows
## [1] 30.30%
```

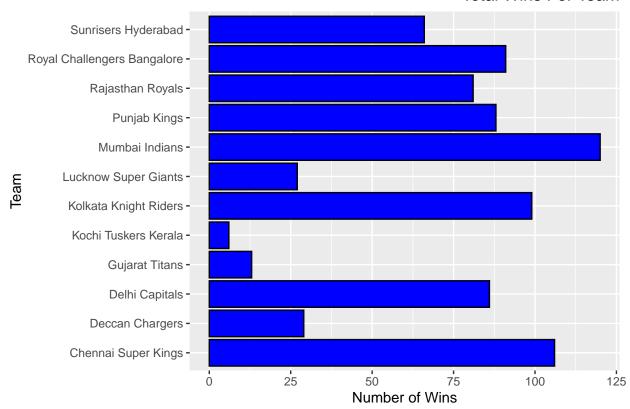
Conclusion: From the above analysis the top 25 bowlers contibute to 30% of the total wickets taken in the IPI.

Team Statistics

Let us analyze some Team statistics



Total Wins Per Team



 $\textbf{Conclusion:} \ \ \text{The top 3 teams are Mumbai Indians, Chennai Super Kinds and Kolkata Knight Riders} \ , \ both in terms of wins and runs.$

Does winning a toss matter to the team and does electing to field or bat matter to the team

## # A tibble: 12 x 2	
## team	number_of_tosses_won
## <chr></chr>	<int></int>
## 1 Mumbai Indians	106
## 2 Delhi Capitals	100
## 3 Kolkata Knight Rider	rs 98
## 4 Chennai Super Kings	97
## 5 Rajasthan Royals	87
## 6 Royal Challengers Ba	angalore 87
## 7 Punjab Kings	85
## 8 Sunrisers Hyderabad	57
## 9 Deccan Chargers	43
## 10 Lucknow Super Giants	33
## 11 Gujarat Titans	15
## 12 Kochi Tuskers Kerala	a 8
## # A tibble: 12 x 3	
## team	count1 count2
## <chr></chr>	<int> <int></int></int>

1 Chennai Super Kings

2 Deccan Chargers

84

36

94

39

##	3	Delhi Capitals	102	92
##	4	Gujarat Titans	16	14
##	5	Kochi Tuskers Kerala	7	7
##	6	Kolkata Knight Riders	95	97
##	7	Lucknow Super Giants	37	39
##	8	Mumbai Indians	97	106
##	9	Punjab Kings	92	98
##	10	Rajasthan Royals	70	91
##	11	Royal Challengers Bangalore	108	87
##	12	Sunrisers Hyderabad	59	65

A tibble: 12 x 2

##		team	matches_won
##		<chr></chr>	<int></int>
##	1	Mumbai Indians	120
##	2	Chennai Super Kings	106
##	3	Kolkata Knight Riders	99
##	4	Royal Challengers Bangalore	91
##	5	Punjab Kings	88
##	6	Delhi Capitals	86
##	7	Rajasthan Royals	81
##	8	Sunrisers Hyderabad	66
##	9	Deccan Chargers	29
##	10	Lucknow Super Giants	27
##	11	Gujarat Titans	13
##	12	Kochi Tuskers Kerala	6

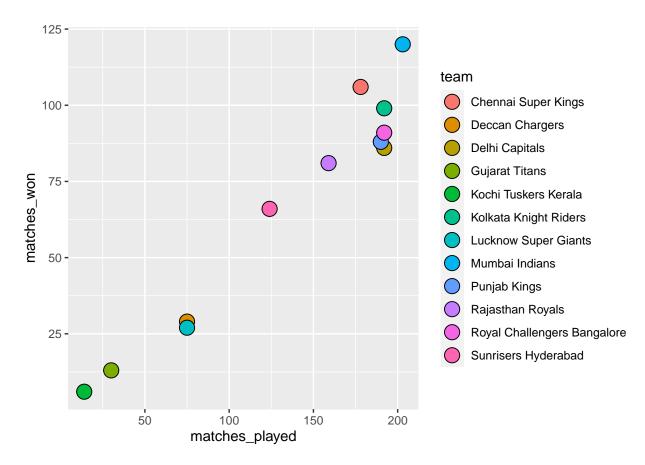
A tibble: 12 x 2

##		team	matches_lost
##		<chr></chr>	<int></int>
##	1	Delhi Capitals	106
##	2	Punjab Kings	102
##	3	Royal Challengers Bangalore	101
##	4	Kolkata Knight Riders	93
##	5	Mumbai Indians	83
##	6	Rajasthan Royals	78
##	7	Chennai Super Kings	72
##	8	Sunrisers Hyderabad	58
##	9	Lucknow Super Giants	48
##	10	Deccan Chargers	46
##	11	Gujarat Titans	17
##	12	Kochi Tuskers Kerala	8

A tibble: 12 x 7

##	team	count1	count2	<pre>number_of_tosse~</pre>	${\tt matches_won}$	${\tt matches_lost}$	matches_played
##	<chr></chr>	<int></int>	<int></int>	<int></int>	<int></int>	<int></int>	<int></int>
##	1 Chenn~	94	84	97	106	72	178
##	2 Decca~	39	36	43	29	46	75
##	3 Delhi~	102	92	100	86	106	192
##	4 Gujar~	16	14	15	13	17	30
##	5 Kochi~	7	7	8	6	8	14
##	6 Kolka~	95	97	98	99	93	192
##	7 Luckn~	37	39	33	27	48	75

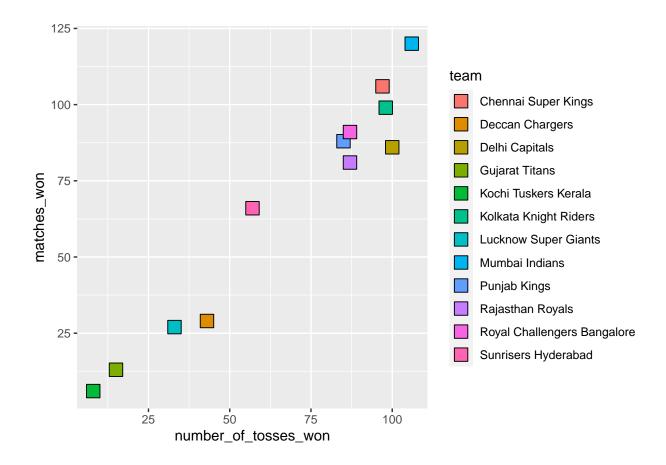
##	8	Mumba~	97	106	106	120	83	203
##	9	Punja~	92	98	85	88	102	190
##	10	Rajas~	70	91	87	81	78	159
##	11	Royal~	108	87	87	91	101	192
##	12	Sunri~	59	65	57	66	58	124



[1] 0.9721357

Conclusion: The more the matches the more wins. The correlation between matches played to matches won is also positive

How does matches won to tosses one correlate

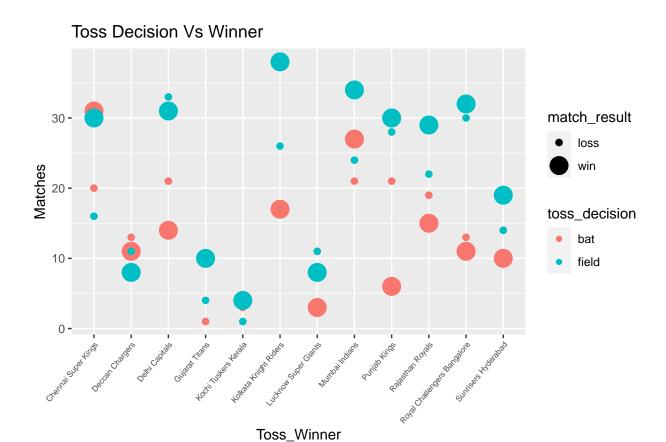


[1] 0.976548

Conclusion: Teams that won tosses mostly won matches as well. And there is a high correlation between the two

Let us now check the decision to bat or field after winning the toss affects the wins

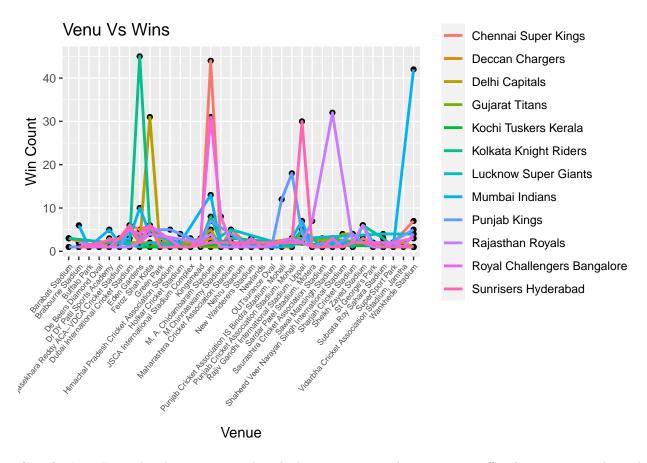
```
## # A tibble: 46 x 4
##
  # Groups:
               toss_winner, toss_decision [24]
##
      toss_winner
                           toss_decision match_result match_result_count
##
      <chr>
                                          <chr>
                                                                     <int>
##
    1 Chennai Super Kings bat
                                          loss
                                                                        20
##
   2 Chennai Super Kings bat
                                          win
                                                                        31
   3 Chennai Super Kings field
                                          loss
                                                                        16
                                                                        30
   4 Chennai Super Kings field
##
                                          win
    5 Deccan Chargers
                           bat
                                                                        13
##
                                          loss
##
    6 Deccan Chargers
                           bat
                                          win
                                                                        11
##
    7 Deccan Chargers
                           field
                                          loss
                                                                        11
    8 Deccan Chargers
                           field
                                                                         8
##
                                          win
    9 Delhi Capitals
                                                                        21
                           bat
                                          loss
## 10 Delhi Capitals
                           bat
                                          win
                                                                        14
## # ... with 36 more rows
```



Conclusion: From the plot we see that the teams that have elected to field first after winning the toss have won more games (bigger circles). The decision to win the toss thus effects the result of a match.

Let us check if venue plays a part in the result of a game

At this point, let us check how many runs were scored batting first and how many were scored batting second in totals and run type wise.



Conclusion: From the plot we can see that the home venues result in more wins ffor the teams as inidicated by the peaks

We have enough data to Start our model

Model 1: Build a model to rank the best players depending on his value

Factors determining the value of a player 1) High Strike Rate (Runs/deliveries faced) for a batsman 2) Low Economy Rate (Runs given/deliveries bowled) 3) Socre against top bowlers and economy against top batsmen 4) Runs Scored by the team and wickets dismissed

High Strike Rate (Runs/deliveries faced) for a batsman

Low Economy Rate (Runs given/deliveries bowled)

Let us determine the batsmen with highest strike rates. For this let is create a table that contains the averages

```
## # A tibble: 1 x 4
##
     avg_deliveries avg_runs median_deliveries median_runs
##
                        <dbl>
                360.
                         447.
                                               74
                                                            76
## 1
## # A tibble: 1 x 4
     avg_deliveries avg_runs median_deliveries median_runs
##
                                            <dbl>
##
               <dbl>
                        <dbl>
                                                         <dbl>
                                                          270.
## 1
                461.
                         571.
                                             200.
```

Model: Reguliration - We will calculate the strike rate and economy rates using regularization. As we have already seen during our analysis the strike rate can be high but most of the players with high strike rates do not figure into the top 25 players. If they face just 2 deliveries and hit a boundary in the first their strike rate can be very high. Hence we adjust this by using median as the Error.

```
##
      player
                      batsman_reg_str_rate
##
      <chr>
                                      <dbl>
##
    1 AD Russell
                                       1.67
##
    2 N Pooran
                                       1.50
    3 SP Narine
                                       1.50
   4 AB de Villiers
##
                                       1.48
##
    5 V Sehwag
                                       1.47
##
    6 HH Pandya
                                       1.47
##
   7 GJ Maxwell
                                       1.45
##
   8 RR Pant
                                       1.45
##
  9 CH Morris
                                       1.44
## 10 BCJ Cutting
                                       1.43
## # ... with 15 more rows
## # A tibble: 25 x 2
##
      player
                      bowler_reg_eco_rate
##
      <chr>
                                     <dbl>
##
   1 Rashid Khan
                                      1.06
##
    2 M Muralitharan
                                      1.07
##
    3 DW Steyn
                                      1.08
##
   4 SL Malinga
                                      1.09
##
    5 R Ashwin
                                      1.09
    6 A Kumble
##
                                      1.10
##
   7 SP Narine
                                      1.11
   8 Sohail Tanvir
                                      1.11
##
   9 SW Tait
                                      1.13
## 10 DP Nannes
                                      1.13
## # ... with 15 more rows
```

##

A tibble: 25 x 2

Now let us merge the two sets and get the top players and rank them. When we merge these two sets we will have a few not applicable values , the reason is because a batsman may not be a bowler and vice versa. If a Batsman is nt a bowler we will use the avg balls and for bwlers who are not batsman we will use the median runs

player	value of player	rank
SP Narine	239.6926	1
AD Russell	238.1415	2
CH Morris	226.0868	3
CH Gayle	224.3507	4
MM Ali	221.8452	5
JC Archer	220.9454	6
YK Pathan	220.6706	7
KH Pandya	220.0700	8
v	219.1316	9
HH Pandya Rashid Khan		
	218.9008	10
GJ Maxwell	218.5992	11
KA Pollard	217.6115	12
Harbhajan Singh	216.3953	13
SR Watson	215.5835	14
SK Raina	214.9529	15
K Gowtham	214.3356	16
V Sehwag	214.0680	17
KK Cooper	213.6447	18
JA Morkel	213.1761	19
BCJ Cutting	213.1244	20
MF Maharoof	211.5580	21
DA Warner	211.1297	22
Mohammad Nabi	210.3603	23
Bipul Sharma	209.6259	24
KP Pietersen	209.2578	25
Shahid Afridi	209.2227	26
R Tewatia	208.9314	27
ST Jayasuriya	207.9850	28
RN ten Doeschate	207.6467	29
CR Brathwaite	205.9549	30
AC Gilchrist	205.7979	31
RG Sharma	205.3444	32
Yuvraj Singh BA Stokes	205.0433 204.7791	33
	2010-00	~ ~ ~
N Rana	204.6793	35
AR Patel	204.5710	36
Umar Gul	204.4119	37
M Morkel	204.3903	38
SA Yadav	204.2229	39
JP Duminy	203.9741	40
SN Khan	203.7613	41
STR Binny	203.6427	42
SM Curran	203.6399	43
JD Ryder	203.5471	44
A Ashish Reddy	203.3675	45
LJ Wright	203.1412	46
KS Williamson	202.9263	47
DR Smith	202.6501	48
A Symonds	202.6235	49
Shakib Al Hasan	202.1672	50
SM Pollock	201.8618	51
RA Jadeja	201.3684	52
V Kohli	201.3601	53
RA Tripathi	200.9361	54
Abdul Samad	200.9301	55
DJ Bravo	200.5200	56
C de Grandhomme	200.2356	57

This table gives us the top players bowlers, batsmen and allrounders and theur value.

We will now introduce an anamoly which is how the top bowlers and batsmen performed against each other

```
## # A tibble: 25 x 2
##
      player
                     batsman_reg_str_rate
##
      <chr>
                                     <dbl>
##
   1 AD Russell
                                      1.67
##
   2 N Pooran
                                      1.50
##
   3 SP Narine
                                      1.50
   4 AB de Villiers
##
                                      1.48
   5 V Sehwag
##
                                      1.47
   6 HH Pandya
                                      1.47
   7 GJ Maxwell
##
                                      1.45
## 8 RR Pant
                                      1.45
## 9 CH Morris
                                      1.44
## 10 BCJ Cutting
                                      1.43
## # ... with 15 more rows
## # A tibble: 25 x 2
##
      player
                     bowler_reg_eco_rate
##
      <chr>
                                    <dbl>
   1 Rashid Khan
                                     1.06
##
    2 M Muralitharan
                                     1.07
##
    3 DW Steyn
                                     1.08
##
   4 SL Malinga
                                     1.09
##
   5 R Ashwin
                                     1.09
##
    6 A Kumble
                                     1.10
##
   7 SP Narine
                                     1.11
  8 Sohail Tanvir
                                     1.11
## 9 SW Tait
                                     1.13
## 10 DP Nannes
                                     1.13
## # ... with 15 more rows
  # A tibble: 25 x 3
##
##
      player
                     strike_rate rank
##
      <chr>
                            <dbl> <int>
                            0.901
##
    1 SR Watson
                                      1
  2 AB de Villiers
                            0.895
                                      2
   3 DA Warner
                            0.869
                                      3
##
  4 RV Uthappa
                            0.850
                                      4
##
  5 SK Raina
                            0.841
                                      5
##
  6 CH Gayle
                                      6
                            0.807
##
   7 MS Dhoni
                            0.801
                                      7
##
   8 YK Pathan
                            0.793
                                      8
## 9 V Kohli
                                      9
                            0.768
## 10 KL Rahul
                            0.766
                                     10
## # ... with 15 more rows
## # A tibble: 25 x 3
      player
##
                      eco_rate rank
##
      <chr>
                          <dbl> <int>
  1 R Ashwin
                          1.69
                                    1
```

2 Rashid Khan

2

1.69

```
3 JJ Bumrah
                           1.70
                                    3
##
                                    4
##
   4 Harbhajan Singh
                           1.71
   5 SP Narine
                                    5
                           1.74
##
   6 B Kumar
                           1.76
                                    6
                                    7
##
    7 YS Chahal
                           1.77
##
   8 DS Kulkarni
                           1.80
                                    8
## 9 DJ Bravo
                           1.81
                                    9
## 10 DW Steyn
                           1.82
                                   10
## # ... with 15 more rows
```

Now let us merge the two sets and get the top players and rank them. When we merge these two sets we will have a few not applicable values , the reason is because a batsman may not be a bowler and vice versa. If a Batsman is not a bowler we will use the avg balls and for bowlers who are not batsman we will use the median runs

player	value_of_player	strike rate	eco rate	rank
SR Watson	140.41070	0.9013531	1.989044	1
SK Raina	126.43855	0.8409679	2.361734	2
YK Pathan	125.17856	0.7927657	2.178555	3
AB de Villiers	124.45383	0.8953332	2.863647	4
DA Warner	122.14993	0.8694098	2.840187	5
RV Uthappa	119.90184	0.8498134	2.863647	6
CH Gayle	118.82764	0.8074671	2.625986	7
RA Jadeja	116.81515	0.6435367	1.906160	8
MS Dhoni	114.98060	0.8006010	2.863647	9
KL Rahul	111.53433	0.7661382	2.863647	10
S Dhawan	111.23947	0.7527486	2.780511	11
V Kohli	111.16608	0.7683365	2.912698	12
RG Sharma	110.73739	0.7407221	2.727384	13
JH Kallis	110.20275	0.5997736	1.991024	14
Yuvraj Singh	108.53280	0.7001425	2.596152	15
G Gambhir	108.14346	0.7322295	2.863647	16
JA Morkel	108.01888	0.5894232	2.037632	17
JP Duminy	106.93410	0.6611917	2.450084	18
SP Narine	106.55846	0.4906443	1.739311	19
SV Samson	106.38129	0.7146079	2.863647	20
DJ Bravo	105.95480	0.5061888	1.807144	21
BB McCullum	105.17320	0.7025269	2.863647	22
KD Karthik	105.16400	0.7024350	2.863647	23
KA Pollard	104.83535	0.5960182	2.210749	24
AC Gilchrist	104.00770	0.6908720	2.863647	25
AT Rayudu	103.35064	0.6843013	2.863647	26
RR Pant	102.86789	0.6794739	2.863647	27
V Sehwag	102.78068	0.6734356	2.821900	28
AM Rahane	102.75678	0.6783628	2.863647	29
IK Pathan	102.51404	0.5776102	2.234486	30
DR Smith	101.47326	0.6103512	2.472913	31
DPMD Jayawardene	101.31355	0.6639305	2.863647	32
GJ Maxwell	100.93858	0.5997075	2.440939	33
WP Saha	100.37245	0.6545195	2.863647	34
MA Agarwal	100.30709	0.6538659	2.863647	35
MK Pandey	99.68638	0.6476588	2.863647	36
SE Marsh	99.61708	0.6469658	2.863647	37
PA Patel	99.40426	0.6448376	2.863647	38
Harbhajan Singh	98.37966	0.3989173	1.709755	39
SPD Smith	98.36306	0.6351153	2.869315	40
SR Tendulkar	98.23047	0.6341753	2.872495	41
MK Tiwary	98.04644	0.6312325	2.863427	42
BJ Hodge	97.90157	0.6258995	2.831929	43
SA Yadav	97.55840	0.6263789	2.863647	44
AR Patel	97.36526	0.4265020	1.827650	45
M Vijay	97.30963	0.6115973	2.766259	46
F du Plessis	95.94784	0.6102734	2.863647	47
SS Iyer	95.72057	0.6080006	2.863647	48
N Rana	95.65067	0.5852893	2.693839	49
STR Binny	94.58025	0.5316566	2.414608	50
AD Russell	94.11716	0.4807739	2.172035	51
R Dravid	93.90454	0.5898403	2.863647	52
A Symonds	93.73354	0.5510777	2.588945	53
AD Mathews	92.17746	0.4848238	2.288587	54
AJ Finch	92.14606	0.5802278	2.930551	55
LRPL Taylor	91.77478	0.5681865	2.860729	56
MEK Hussey	91.59369	0.5667319	2.863647	57
	21.0000		2 2 2 2 2 4 5	

player	value_of_player	strike rate	eco rate	rank
SR Watson	140.41070	0.9013531	1.989044	1
SK Raina	126.43855	0.8409679	2.361734	2
YK Pathan	125.17856	0.7927657	2.178555	3
AB de Villiers	124.45383	0.8953332	2.863647	4
DA Warner	122.14993	0.8694098	2.840187	5
RV Uthappa	119.90184	0.8498134	2.863647	6
CH Gayle	118.82764	0.8074671	2.625986	7
RA Jadeja	116.81515	0.6435367	1.906160	8
MS Dhoni	114.98060	0.8006010	2.863647	9
KL Rahul	111.53433	0.7661382	2.863647	10
S Dhawan	111.23947	0.7527486	2.780511	11
V Kohli	111.16608	0.7683365	2.912698	12
RG Sharma	110.73739	0.7407221	2.727384	13
JH Kallis	110.20275	0.5997736	1.991024	14
Yuvraj Singh	108.53280	0.7001425	2.596152	15
G Gambhir	108.14346	0.7322295	2.863647	16
JA Morkel	108.01888	0.5894232	2.037632	17
JP Duminy	106.93410	0.6611917	2.450084	18
SP Narine	106.55846	0.4906443	1.739311	19
SV Samson	106.38129	0.7146079	2.863647	20
DJ Bravo	105.95480	0.5061888	1.807144	21
BB McCullum	105.17320	0.7025269	2.863647	22
KD Karthik	105.16400	0.7024350	2.863647	23
KA Pollard	104.83535	0.5960182	2.210749	24
AC Gilchrist	104.00770	0.6908720	2.863647	25
AT Rayudu	103.35064	0.6843013	2.863647	26
RR Pant	102.86789	0.6794739	2.863647	27
V Sehwag	102.78068	0.6734356	2.821900	28
AM Rahane	102.75678	0.6783628	2.863647	29
IK Pathan	102.51404	0.5776102	2.234486	30
DR Smith	101.47326	0.6103512	2.472913	31
DPMD Jayawardene	101.31355	0.6639305	2.863647	32
GJ Maxwell	100.93858	0.5997075	2.440939	33
WP Saha	100.37245	0.6545195	2.863647	34
MA Agarwal	100.30709	0.6538659	2.863647	35
MK Pandey	99.68638	0.6476588	2.863647	36
SE Marsh	99.61708	0.6469658	2.863647	37
PA Patel	99.40426	0.6448376	2.863647	38
Harbhajan Singh	98.37966	0.3989173	1.709755	39
SPD Smith	98.36306	0.6351153	2.869315	40
SR Tendulkar	98.23047	0.6341753	2.872495	41
MK Tiwary	98.04644	0.6312325	2.863427	42
BJ Hodge	97.90157	0.6258995	2.831929	43
SA Yadav	97.55840	0.6263789	2.863647	44
AR Patel	97.36526	0.4265020	1.827650	45
M Vijay	97.30963	0.6115973	2.766259	46
F du Plessis	95.94784	0.6102734	2.863647	47
SS Iyer	95.72057	0.6080006	2.863647	48
N Rana	95.65067	0.5852893	2.693839	49
STR Binny	94.58025	0.5316566	2.414608	50
AD Russell	94.11716	0.4807739	2.172035	51
R Dravid	93.90454	0.5898403	2.863647	52
A Symonds	93.73354	0.5510777	2.588945	53
AD Mathews	92.17746	0.4848238	2.288587	54
AJ Finch	92.14606	0.5802278	2.930551	55
LRPL Taylor	91.77478	0.5681865	2.860729	56
MEK Hussey	91.59369	0.5667319	2.863647	57
TILLE TEUDOCY	31.03003	0.0001010	2.000041	51

We will now create the pool of 200 top players based on the above two models. We are taking into account players ranked by strikerate and economy and also how they performed against each other. There maybe other anomolies we can introduce to this to arrive at the best pool of players but we will restrict our findings to these two.

##	# A t	ibble: 200 x	3	
##	pla	ayer	<pre>value_of_player</pre>	rank
##	<cl< th=""><th>nr></th><th><dbl></dbl></th><th><int></int></th></cl<>	nr>	<dbl></dbl>	<int></int>
##	1 SR	Watson	140.	1
##	2 SK	Raina	126.	2
##	3 YK	Pathan	125.	3
##	4 AB	de Villiers	124.	4
##	5 DA	Warner	122.	5
##	6 RV	Uthappa	120.	6
##	7 CH	Gayle	119.	7
##	8 RA	Jadeja	117.	8
##	9 MS	Dhoni	115.	9
##	10 KL	Rahul	112.	10
##	#	with 190 mor	re rows	

Model 2: Predict the winner of a Match

From our analysis of the matches we have seen the following factors matter

- 1) venue, toss, toss decision, team battiing first and the team batting next
- 2) the data set we have is extremely small

To predict a match winner it is known that the (KNN and Random Forest), with 49.77% accuracy (logistic Regression), almost 17% better than a random decision (benchmark) which has 33%. We will also look at the Naive Bayes methodology.

Naive Bayes – https://en.wikipedia.org/wiki/Naive_Bayes_classifier Logistic Regression – https://towardsdatascience.com/introduction-to-logistic-regression-66248243c148#:~:text=Logistic%20regression%20is%20a%20claskNN Algorithm (Nearest Neighbour) – https://en.wikipedia.org/wiki/K-nearest_neighbors_algorithm Random Forest – https://en.wikipedia.org/wiki/Random_forest

Data Sets: train and test datasets

Create the training and test sets

## #	A tibble	e: 8 x 7	7				
##	team	count1	count2	${\tt number_of_tosse^{\sim}}$	${\tt matches_won}$	${\tt matches_lost}$	matches_played
##	<chr></chr>	<int></int>	<int></int>	<int></int>	<int></int>	<int></int>	<int></int>
## 1	Mumbai~	97	106	106	120	83	203
## 2	Delhi ~	102	92	100	86	106	192
## 3	Kolkat~	95	97	98	99	93	192
## 4	Royal ~	108	87	87	91	101	192
## 5	Punjab~	92	98	85	88	102	190
## 6	Chenna~	94	84	97	106	72	178
## 7	Rajast~	70	91	87	81	78	159
## 8	Sunris~	59	65	57	66	58	124

[1] FALSE

##	team1	team2	winner	venue
##	Length:628	Length:628	Length:628	Length:628
##	Class :character	Class :character	Class :character	Class : character
##	Mode :character	Mode :character	Mode :character	Mode :character
##	toss_winner	toss_decision		
##	Length:628	Length:628		
##	Class :character	Class :character		
##	Mode :character	Mode :character		

##			team1		team2
##	1	Royal	Challengers Bangalore		Kolkata Knight Riders
##	2	· ·	Punjab Kings		Chennai Super Kings
##	3		Delhi Capitals		Rajasthan Royals
##	4		Mumbai Indians	Royal	Challengers Bangalore
##	5		Rajasthan Royals	·	Punjab Kings
##	6		Chennai Super Kings		Mumbai Indians
##	7		Punjab Kings		Mumbai Indians
##	8	Royal	Challengers Bangalore		Rajasthan Royals
##	9	· ·	Chennai Super Kings		Kolkata Knight Riders
##	10		Punjab Kings		Delhi Capitals
##	11	Royal	Challengers Bangalore		Chennai Super Kings
##	12	-	Kolkata Knight Riders		Mumbai Indians
##	13		Delhi Capitals	Royal	Challengers Bangalore
##	14		Rajasthan Royals		Kolkata Knight Riders
##	15		Chennai Super Kings		Delhi Capitals
##	16		Punjab Kings		Kolkata Knight Riders
##	17		Mumbai Indians		Delhi Capitals
##	18		Rajasthan Royals		Chennai Super Kings
##	19	Royal	Challengers Bangalore		Punjab Kings
##	20		Mumbai Indians		Rajasthan Royals
##	21		Delhi Capitals		Chennai Super Kings
##	22		Kolkata Knight Riders	Royal	Challengers Bangalore
##	23	Royal	Challengers Bangalore		Mumbai Indians
##	24		Chennai Super Kings		Punjab Kings
##	25		Rajasthan Royals		Delhi Capitals

##	26			Royal	Challengers Bangalore
##	27		Kolkata Knight Riders		Delhi Capitals
##	28		Mumbai Indians		Chennai Super Kings
##	29		Punjab Kings		Rajasthan Royals
##	30		Mumbai Indians		Kolkata Knight Riders
##	31		Delhi Capitals		Punjab Kings
##	32		Rajasthan Royals	Royal	Challengers Bangalore
##	33		Kolkata Knight Riders	•	Chennai Super Kings
##	34	Roval	Challengers Bangalore		Delhi Capitals
##	35	J	Kolkata Knight Riders		Rajasthan Royals
##	36		Mumbai Indians		Punjab Kings
##	37		Chennai Super Kings	Roval	Challengers Bangalore
##			Delhi Capitals	<i>j</i>	Mumbai Indians
##			Chennai Super Kings		Rajasthan Royals
##			Kolkata Knight Riders		Punjab Kings
##			Rajasthan Royals		Mumbai Indians
##			Delhi Capitals		
##			-		Rajasthan Royals
	43		Chennai Super Kings		Punjab Kings
			Chennai Super Kings		Rajasthan Royals
##		D 1	Chennai Super Kings		Mumbai Indians
	46	коуат	Challengers Bangalore		Rajasthan Royals
##		ъ .	Delhi Capitals		Punjab Kings
	48	коуат	Challengers Bangalore		Chennai Super Kings
##			Punjab Kings		Kolkata Knight Riders
##			Chennai Super Kings		Delhi Capitals
##		ъ .	Kolkata Knight Riders		Rajasthan Royals
##		-	Challengers Bangalore		Punjab Kings
##		коуат	Challengers Bangalore		Delhi Capitals
##			Punjab Kings		Rajasthan Royals
##			Kolkata Knight Riders		Mumbai Indians
##			Delhi Capitals		Rajasthan Royals
	57	коуат	Challengers Bangalore		Kolkata Knight Riders
##			Punjab Kings		Mumbai Indians
##			Chennai Super Kings		Rajasthan Royals
##		_	Kolkata Knight Riders		Mumbai Indians
	61	Royal	Challengers Bangalore		Punjab Kings
	62		Chennai Super Kings		Delhi Capitals
##			Punjab Kings		Kolkata Knight Riders
##		Royal	Challengers Bangalore		Mumbai Indians
##	65		Punjab Kings		Rajasthan Royals
##	66		Delhi Capitals		Kolkata Knight Riders
##	67	Royal	Challengers Bangalore		Rajasthan Royals
##	68		Chennai Super Kings		Punjab Kings
##	69		Delhi Capitals		Mumbai Indians
##	70		Chennai Super Kings		Rajasthan Royals
##	71	Royal	Challengers Bangalore		Mumbai Indians
##	72		Delhi Capitals		Kolkata Knight Riders
##	73	Royal	Challengers Bangalore		Kolkata Knight Riders
##	74		Punjab Kings		Mumbai Indians
##	75	Royal	Challengers Bangalore		Chennai Super Kings
##	76		Mumbai Indians		Rajasthan Royals
##	77		Delhi Capitals		Punjab Kings
##	78		Chennai Super Kings		Mumbai Indians
##	79		Delhi Capitals		Rajasthan Royals

##	80		Chennai Super Kings		Kolkata Knight Riders
##	81	Royal	Challengers Bangalore		Delhi Capitals
##	82		Kolkata Knight Riders		Rajasthan Royals
##	83		Chennai Super Kings		Punjab Kings
##	84		Delhi Capitals		Mumbai Indians
##	85	Royal	Challengers Bangalore		Chennai Super Kings
##	86	·	Mumbai Indians		Rajasthan Royals
##	87		Punjab Kings		Delhi Capitals
	88			Roval	Challengers Bangalore
##			Rajasthan Royals	110 y a 1	Delhi Capitals
	90	Roval	Challengers Bangalore		Punjab Kings
##		noyar	Kolkata Knight Riders		Chennai Super Kings
	92		Delhi Capitals		Mumbai Indians
	93	Dorral	=		
		noyai	Challengers Bangalore		Rajasthan Royals
	94		Delhi Capitals		Chennai Super Kings
	95		Rajasthan Royals		Kolkata Knight Riders
	96			Royal	Challengers Bangalore
	97		Chennai Super Kings		Punjab Kings
	98		Mumbai Indians		Kolkata Knight Riders
	99	Royal	Challengers Bangalore		Chennai Super Kings
##	100		Punjab Kings		Rajasthan Royals
##	101		Mumbai Indians		Chennai Super Kings
##	102		Punjab Kings		Kolkata Knight Riders
##	103	Royal	Challengers Bangalore		Delhi Capitals
##	104		Rajasthan Royals		Chennai Super Kings
##	105		Delhi Capitals		Kolkata Knight Riders
##	106		Mumbai Indians		Punjab Kings
##	107		Chennai Super Kings	Roval	Challenness Demmaless
			onemai paper ningb	itoyai	Challengers Bangalore
##	108		Delhi Capitals	noyar	Rajasthan Royals
			Delhi Capitals Punjab Kings	-	
##	108		Delhi Capitals Punjab Kings Chennai Super Kings	-	Rajasthan Royals
## ##	108 109		Delhi Capitals Punjab Kings	-	Rajasthan Royals Challengers Bangalore
## ## ##	108 109 110		Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals
## ## ## ##	108 109 110 111		Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings
## ## ## ##	108 109 110 111 112		Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore
## ## ## ## ##	108 109 110 111 112 113		Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings
## ## ## ## ##	108 109 110 111 112 113 114		Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians
## ## ## ## ## ##	108 109 110 111 112 113 114 115 116	Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians
## ## ## ## ## ##	108 109 110 111 112 113 114 115 116	Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders
## ## ## ## ## ## ##	108 109 110 111 112 113 114 115 116 117	Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings
## ## ## ## ## ## ##	108 109 110 111 112 113 114 115 116 117	Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians
## ## ## ## ## ## ##	108 109 110 111 112 113 114 115 116 117 118 119 120	Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals
## ## ## ## ## ## ## ## ## ## ## ## ##	108 109 110 111 112 113 114 115 116 117 118 119 120 121	Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians Chennai Super Kings	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals Kolkata Knight Riders
## ## ## ## ## ## ## ## ## ## ## ## ##	108 109 110 111 112 113 114 115 116 117 118 119 120 121 122	Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians Chennai Super Kings Rajasthan Royals	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals Kolkata Knight Riders Challengers Bangalore
## ## ## ## ## ## ## ## ## ## ## ## ##	108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123		Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians Chennai Super Kings Rajasthan Royals Chennai Super Kings	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals Kolkata Knight Riders Challengers Bangalore Delhi Capitals
######################################	108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124		Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians Chennai Super Kings Rajasthan Royals Chennai Super Kings Challengers Bangalore	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals Kolkata Knight Riders Challengers Bangalore Delhi Capitals Mumbai Indians
######################################	108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125		Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians Chennai Super Kings Rajasthan Royals Chennai Super Kings Challengers Bangalore Kolkata Knight Riders	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals Kolkata Knight Riders Challengers Bangalore Delhi Capitals Mumbai Indians Rajasthan Royals
## ###################################	108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126		Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians Chennai Super Kings Rajasthan Royals Chennai Super Kings Challengers Bangalore Kolkata Knight Riders Punjab Kings	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals Kolkata Knight Riders Challengers Bangalore Delhi Capitals Mumbai Indians Challengers Bangalore Delhi Capitals Mumbai Indians Rajasthan Royals Chennai Super Kings
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######################################	108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128	Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians Chennai Super Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Chennai Super Kings Challengers Bangalore Kolkata Knight Riders Punjab Kings Kolkata Knight Riders Challengers Bangalore	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals Kolkata Knight Riders Challengers Bangalore Delhi Capitals Mumbai Indians Rajasthan Royals Chennai Super Kings Mumbai Indians Mumbai Indians
##########################	108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129	Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians Chennai Super Kings Rajasthan Royals Chennai Super Kings Challengers Bangalore Kolkata Knight Riders Punjab Kings Kolkata Knight Riders Challengers Bangalore Chennai Super Kings	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals Kolkata Knight Riders Challengers Bangalore Delhi Capitals Mumbai Indians Rajasthan Royals Chennai Super Kings Mumbai Indians Mumbai Indians Mumbai Indians
##########################	108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130	Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians Chennai Super Kings Rajasthan Royals Chennai Super Kings Chennai Super Kings Challengers Bangalore Kolkata Knight Riders Punjab Kings Kolkata Knight Riders Challengers Bangalore Chennai Super Kings	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals Kolkata Knight Riders Challengers Bangalore Delhi Capitals Mumbai Indians Rajasthan Royals Chennai Super Kings Mumbai Indians Mumbai Indians Mumbai Indians Mumbai Indians Mumbai Indians Kolkata Knight Riders
########################	108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131	Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians Chennai Super Kings Rajasthan Royals Chennai Super Kings Challengers Bangalore Kolkata Knight Riders Punjab Kings Kolkata Knight Riders Challengers Bangalore Chennai Super Kings Challengers Bangalore Chennai Super Kings Chennai Super Kings Chennai Super Kings	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals Kolkata Knight Riders Challengers Bangalore Delhi Capitals Mumbai Indians Rajasthan Royals Chennai Super Kings Mumbai Indians Mumbai Indians Mumbai Indians Kolkata Knight Riders Mumbai Indians Mumbai Indians Kolkata Knight Riders
##########################	108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132	Royal Royal	Delhi Capitals Punjab Kings Chennai Super Kings Kolkata Knight Riders Delhi Capitals Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Punjab Kings Challengers Bangalore Delhi Capitals Rajasthan Royals Mumbai Indians Chennai Super Kings Rajasthan Royals Chennai Super Kings Chennai Super Kings Challengers Bangalore Kolkata Knight Riders Punjab Kings Kolkata Knight Riders Challengers Bangalore Chennai Super Kings	Royal	Rajasthan Royals Challengers Bangalore Rajasthan Royals Punjab Kings Challengers Bangalore Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Punjab Kings Mumbai Indians Delhi Capitals Kolkata Knight Riders Challengers Bangalore Delhi Capitals Mumbai Indians Rajasthan Royals Chennai Super Kings Mumbai Indians Mumbai Indians Mumbai Indians Mumbai Indians Mumbai Indians Kolkata Knight Riders

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	134 135		Punjab Kings		Chennai Super Kings
	136		Rajasthan Royals	Darral	Kolkata Knight Riders Challengers Bangalore
	137		Kolkata Knight Riders	noyai	0 0
	138		-		Rajasthan Royals Rajasthan Royals
	139		Punjab Kings Mumbai Indians		
	140			Povol	Chennai Super Kings
	141		-	noyai	Challengers Bangalore Punjab Kings
	142		Delhi Capitals	Povol	Challengers Bangalore
	143		Delhi Capitals	noyai	Kolkata Knight Riders
	144		Rajasthan Royals		Mumbai Indians
	145		Kolkata Knight Riders		Punjab Kings
	146		Mumbai Indians		Punjab Kings
	147		Chennai Super Kings		Rajasthan Royals
		Roval	Challengers Bangalore		Punjab Kings
	149	100 9 41	Kolkata Knight Riders		Chennai Super Kings
	150		Mumbai Indians		Delhi Capitals
	151		Rajasthan Royals		Chennai Super Kings
	152		Punjab Kings		Mumbai Indians
	153		ž č	Roval	Challengers Bangalore
	154		Chennai Super Kings	J	Delhi Capitals
##	155	Roval	Challengers Bangalore		Kolkata Knight Riders
	156	J	Punjab Kings		Delhi Capitals
##	157			Royal	Challengers Bangalore
##	158		Mumbai Indians	Ü	Rajasthan Royals
##	159	Royal	Challengers Bangalore		Chennai Super Kings
##	160		Kolkata Knight Riders		Mumbai Indians
##	161	Royal	Challengers Bangalore		Chennai Super Kings
##	162		Mumbai Indians		Kolkata Knight Riders
##	163	Royal	Challengers Bangalore		Mumbai Indians
##	164			Royal	Challengers Bangalore
	165		Chennai Super Kings		Mumbai Indians
	166		Kolkata Knight Riders		Delhi Capitals
	167		Rajasthan Royals		Punjab Kings
		Royal	Challengers Bangalore		Delhi Capitals
	169	ъ .	Rajasthan Royals		Kolkata Knight Riders
		коуат	Challengers Bangalore		Kolkata Knight Riders
	171		Delhi Capitals Mumbai Indians		Chennai Super Kings
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	174		Kolkata Knight Riders	noyai	Challengers Bangalore Rajasthan Royals
	175		Kolkata Knight Riders		Punjab Kings
		Rowal	Challengers Bangalore		Rajasthan Royals
	177	noyar	Mumbai Indians		Delhi Capitals
	178		Punjab Kings		Kolkata Knight Riders
	179			Roval	Challengers Bangalore
	180		Chennai Super Kings	200 3 00 1	Rajasthan Royals
	181		Mumbai Indians		Punjab Kings
	182			Roval	Challengers Bangalore
	183		Punjab Kings	<i>J</i> -	Mumbai Indians
	184		Delhi Capitals		Mumbai Indians
	185		Chennai Super Kings		Punjab Kings
	186			Royal	Challengers Bangalore
##	187		Delhi Capitals		Rajasthan Royals

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	189		Chennai Super Kings Rajasthan Royals		Kolkata Knight Riders Delhi Capitals
		Poval	Challengers Bangalore		Punjab Kings
	191	noyar	Punjab Kings		Rajasthan Royals
	192		Mumbai Indians		Chennai Super Kings
	193		Delhi Capitals		Kolkata Knight Riders
	194			Poval	Challengers Bangalore
	195		Rajasthan Royals	noyar	Chennai Super Kings
	196		Kolkata Knight Riders		Mumbai Indians
	197		Chennai Super Kings		Delhi Capitals
		Roval	Challengers Bangalore		Mumbai Indians
	199	noyar	Kolkata Knight Riders		Chennai Super Kings
	200		Delhi Capitals		Punjab Kings
	201		Mumbai Indians		Kolkata Knight Riders
	202		Punjab Kings		Chennai Super Kings
	203			Roval	Challengers Bangalore
	204		Punjab Kings	noyar	Delhi Capitals
	205		Rajasthan Royals		Mumbai Indians
	206		Delhi Capitals		Kolkata Knight Riders
	207		Chennai Super Kings		Mumbai Indians
	208		Delhi Capitals		Chennai Super Kings
	209		Kolkata Knight Riders		Chennai Super Kings
##	210		Kolkata Knight Riders		Delhi Capitals
##	211	Roval	Challengers Bangalore		Mumbai Indians
	212	.	Delhi Capitals		Rajasthan Royals
##	213		Chennai Super Kings		Mumbai Indians
##	214			Royal	Challengers Bangalore
##	215		Rajasthan Royals	•	Kolkata Knight Riders
##	216		Mumbai Indians		Delhi Capitals
##	217		Punjab Kings		Chennai Super Kings
##	218	Royal	Challengers Bangalore		Kolkata Knight Riders
##	219		Delhi Capitals		Sunrisers Hyderabad
##	220			Royal	Challengers Bangalore
##	221		Kolkata Knight Riders		Sunrisers Hyderabad
	222		Rajasthan Royals		Punjab Kings
	223		Punjab Kings		Kolkata Knight Riders
		Royal	Challengers Bangalore		Delhi Capitals
	225		Rajasthan Royals		Mumbai Indians
	226		Delhi Capitals		Chennai Super Kings
	227		Sunrisers Hyderabad		Punjab Kings
	228		Kolkata Knight Riders		Chennai Super Kings
		Royal	Challengers Bangalore		Rajasthan Royals
	230		Delhi Capitals		Mumbai Indians
	231		Chennai Super Kings		Rajasthan Royals
	232		Punjab Kings		Delhi Capitals
	233		Kolkata Knight Riders		Mumbai Indians
	234		Chennai Super Kings		Sunrisers Hyderabad
	235		Kolkata Knight Riders		Punjab Kings
	236		Rajasthan Royals	D -	Sunrisers Hyderabad
	237			коуа1	Challengers Bangalore
	238		Chennai Super Kings	Porro 7	Kolkata Knight Riders
	239		Mumbai Indians	noyal	Challengers Bangalore
	240				Punjab Kings
##	241		Sunrisers Hyderabad		Mumbai Indians

	242		Delhi Capitals		Kolkata Knight Riders
	243		Chennai Super Kings		Punjab Kings
	244		Kolkata Knight Riders		Rajasthan Royals
	245		Sunrisers Hyderabad		Delhi Capitals
		Royal	Challengers Bangalore		Punjab Kings
	247		Mumbai Indians		Chennai Super Kings
		Royal	Challengers Bangalore		Sunrisers Hyderabad
	249		Rajasthan Royals		Delhi Capitals
	250		Mumbai Indians		Kolkata Knight Riders
	251		Sunrisers Hyderabad		Chennai Super Kings
	252		Punjab Kings		Rajasthan Royals
	253		-	Royal	Challengers Bangalore
	254		Punjab Kings		Sunrisers Hyderabad
	255			Royal	Challengers Bangalore
	256		Rajasthan Royals		Chennai Super Kings
	257		Delhi Capitals		Punjab Kings
	258		Mumbai Indians		Sunrisers Hyderabad
	259		Chennai Super Kings		Delhi Capitals
##	260		Mumbai Indians		Rajasthan Royals
##	261			Royal	Challengers Bangalore
##	262		Sunrisers Hyderabad		Rajasthan Royals
	263		Punjab Kings		Mumbai Indians
##	264	Royal	Challengers Bangalore		Chennai Super Kings
##	265		Sunrisers Hyderabad		Kolkata Knight Riders
##	266		Chennai Super Kings		Mumbai Indians
##	267		Rajasthan Royals		Sunrisers Hyderabad
	268		Mumbai Indians		Rajasthan Royals
##	269		Chennai Super Kings		Mumbai Indians
##	270		Mumbai Indians		Kolkata Knight Riders
##	271		-	Royal	Challengers Bangalore
##	272		Chennai Super Kings		Punjab Kings
	273		Sunrisers Hyderabad		Rajasthan Royals
##	274	Royal	Challengers Bangalore		Mumbai Indians
##	275		Kolkata Knight Riders		Delhi Capitals
	276		Rajasthan Royals		Punjab Kings
##	277		Chennai Super Kings		Delhi Capitals
##	278		Punjab Kings		Sunrisers Hyderabad
##	279		Rajasthan Royals		Chennai Super Kings
##	280	Royal	Challengers Bangalore		Kolkata Knight Riders
##	281		Sunrisers Hyderabad		Delhi Capitals
##	282		Chennai Super Kings		Mumbai Indians
##	283		Rajasthan Royals	Royal	Challengers Bangalore
##	284		Kolkata Knight Riders		Punjab Kings
##	285		Delhi Capitals		Mumbai Indians
##	286		Sunrisers Hyderabad		Chennai Super Kings
##	287			Royal	Challengers Bangalore
	288		Kolkata Knight Riders		Rajasthan Royals
	289		Mumbai Indians		Sunrisers Hyderabad
	290		Chennai Super Kings		Kolkata Knight Riders
	291		Mumbai Indians		Punjab Kings
	292		Delhi Capitals		Rajasthan Royals
	293	Royal	Challengers Bangalore		Sunrisers Hyderabad
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##	296			Royal	Challengers Bangalore
##	297		Delhi Capitals		Kolkata Knight Riders
##	298		Punjab Kings		Chennai Super Kings
##	299		Rajasthan Royals		Sunrisers Hyderabad
##	300	Royal	Challengers Bangalore		Punjab Kings
##	301		Delhi Capitals		Sunrisers Hyderabad
##	302		Mumbai Indians		Chennai Super Kings
##	303		Punjab Kings		Kolkata Knight Riders
##	304	Roval	Challengers Bangalore		Rajasthan Royals
	305	.	Sunrisers Hyderabad		Mumbai Indians
##	306		Chennai Super Kings		Rajasthan Royals
##	307	Roval	Challengers Bangalore		Delhi Capitals
	308	J	Sunrisers Hyderabad		Punjab Kings
	309		Kolkata Knight Riders		Mumbai Indians
	310		Rajasthan Royals		Delhi Capitals
	311		-	Roval	Challengers Bangalore
	312		Sunrisers Hyderabad	100 y a 1	Kolkata Knight Riders
	313		Rajasthan Royals		Mumbai Indians
	314		Delhi Capitals		Punjab Kings
	315		-	Roval	Challengers Bangalore
	316		Kolkata Knight Riders	noyar	Chennai Super Kings
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	318			Povol	Challengers Bangalore
	319		Chennai Super Kings	noyar	Sunrisers Hyderabad
	320		Mumbai Indians		ŭ
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	323	noyai	Challengers Bangalore		Chennai Super Kings
	324		Kolkata Knight Riders		Sunrisers Hyderabad
	325		Punjab Kings Mumbai Indians		Delhi Capitals
					Rajasthan Royals
	326		Punjab Kings		Kolkata Knight Riders
	327		Chennai Super Kings		Mumbai Indians
	328		Chennai Super Kings		Punjab Kings
	329		Kolkata Knight Riders		Punjab Kings
	330		Kolkata Knight Riders		Mumbai Indians
	331		Chennai Super Kings		Delhi Capitals
	332		Punjab Kings		Rajasthan Royals
	333		Chennai Super Kings		Sunrisers Hyderabad
	334		_	Royal	Challengers Bangalore
	335		Delhi Capitals		Rajasthan Royals
	336		Mumbai Indians		Punjab Kings
		Royal	Challengers Bangalore		Sunrisers Hyderabad
	338		Rajasthan Royals		Mumbai Indians
	339		Kolkata Knight Riders		Chennai Super Kings
	340		Punjab Kings		Delhi Capitals
	341		Sunrisers Hyderabad		Rajasthan Royals
	342		Mumbai Indians		Chennai Super Kings
	343		Sunrisers Hyderabad		Delhi Capitals
	344		Punjab Kings		Kolkata Knight Riders
	345		Rajasthan Royals		Chennai Super Kings
##	346	Royal	Challengers Bangalore		Mumbai Indians
	347		Delhi Capitals		Kolkata Knight Riders
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	348		Rajasthan Royals		Punjab Kings
	348		Rajasthan Royals Sunrisers Hyderabad		Punjab Kings Kolkata Knight Riders

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		коуат	Challengers Bangalore		Chennai Super Kings
	351		Delhi Capitals		Mumbai Indians
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##	353		Mumbai Indians		Sunrisers Hyderabad
##	354		Chennai Super Kings		Punjab Kings
##	355		Delhi Capitals	Royal	Challengers Bangalore
##	356		Punjab Kings		Sunrisers Hyderabad
##	357		Kolkata Knight Riders		Delhi Capitals
##	358		Chennai Super Kings		Kolkata Knight Riders
##	359		Delhi Capitals		Punjab Kings
##	360		Mumbai Indians		Rajasthan Royals
		Roval	Challengers Bangalore		Kolkata Knight Riders
	362	100 y a.z.	Sunrisers Hyderabad		Chennai Super Kings
	363		_		Mumbai Indians
			Punjab Kings		
	364		Rajasthan Royals	ъ .	Delhi Capitals
	365			коуат	Challengers Bangalore
	366		Kolkata Knight Riders		Sunrisers Hyderabad
	367		Mumbai Indians		Delhi Capitals
##	368	Royal	Challengers Bangalore		Punjab Kings
##	369		Rajasthan Royals		Sunrisers Hyderabad
##	370		Chennai Super Kings		Mumbai Indians
##	371		Kolkata Knight Riders		Punjab Kings
##	372		Delhi Capitals		Sunrisers Hyderabad
##	373		Mumbai Indians	Royal	Challengers Bangalore
##	374		Chennai Super Kings	•	Rajasthan Royals
##	375		Sunrisers Hyderabad		Punjab Kings
##	376		Delhi Capitals		Chennai Super Kings
##	377		-	Roval	Challengers Bangalore
	378		Mumbai Indians	100 3 42	Kolkata Knight Riders
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	404		Punjab Kings		Delhi Capitals
	405		Mumbai Indians		Sunrisers Hyderabad
	406			Royal	Challengers Bangalore
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##	408		Sunrisers Hyderabad		Delhi Capitals
##	409		Mumbai Indians		Punjab Kings
##	410		Punjab Kings		Sunrisers Hyderabad
##	411		Mumbai Indians		Delhi Capitals
##	412		Kolkata Knight Riders	Royal	Challengers Bangalore
##	413	Royal	Challengers Bangalore		Punjab Kings
##	414		Delhi Capitals		Sunrisers Hyderabad
##	415		Kolkata Knight Riders		Sunrisers Hyderabad
##	416		Delhi Capitals	Royal	Challengers Bangalore
##	417		Sunrisers Hyderabad		Kolkata Knight Riders
##	418	Royal	Challengers Bangalore		Sunrisers Hyderabad
##	419		Sunrisers Hyderabad	Royal	Challengers Bangalore
##	420	Royal	Challengers Bangalore		Delhi Capitals
##	421		Mumbai Indians		Kolkata Knight Riders
##	422		Punjab Kings	Royal	Challengers Bangalore
##	423		Mumbai Indians		Sunrisers Hyderabad
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##	427		Delhi Capitals		Punjab Kings
##	428		Delhi Capitals		Kolkata Knight Riders
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##	458		Mumbai Indians		Delhi Capitals
	459		Kolkata Knight Riders		Sunrisers Hyderabad
##	460	Royal	Challengers Bangalore		Rajasthan Royals
##	461		Punjab Kings		Chennai Super Kings
##	462		Kolkata Knight Riders		Delhi Capitals
##	463		Mumbai Indians	Royal	Challengers Bangalore
##	464		Rajasthan Royals		Kolkata Knight Riders
##	465		Punjab Kings		Sunrisers Hyderabad
##	466		Chennai Super Kings		Rajasthan Royals
##	467		Kolkata Knight Riders		Punjab Kings
##	468	Royal	Challengers Bangalore		Delhi Capitals
	469	·	Sunrisers Hyderabad		Chennai Super Kings
##	470		Rajasthan Royals		Mumbai Indians
##	471		Delhi Capitals		Punjab Kings
	472		Mumbai Indians		Sunrisers Hyderabad
		Roval	Challengers Bangalore		Chennai Super Kings
	474	noyar	Sunrisers Hyderabad		Punjab Kings
	475		Delhi Capitals		Kolkata Knight Riders
	476		Chennai Super Kings		Mumbai Indians
	477		Rajasthan Royals		Sunrisers Hyderabad
		Porro 1	Challengers Bangalore		Kolkata Knight Riders
	479	noyar	Chennai Super Kings		Delhi Capitals
		Darra 1			Mumbai Indians
		noyai	Challengers Bangalore		
	481		Delhi Capitals		Rajasthan Royals
	482		Kolkata Knight Riders		Chennai Super Kings
	483		Punjab Kings	D 1	Mumbai Indians
	484			Royal	Challengers Bangalore
	485		Sunrisers Hyderabad		Delhi Capitals
	486		Mumbai Indians		Kolkata Knight Riders
	487		Punjab Kings		Rajasthan Royals
	488			Royal	Challengers Bangalore
	489		Rajasthan Royals		Punjab Kings
	490		Kolkata Knight Riders		Mumbai Indians
	491		Delhi Capitals		Sunrisers Hyderabad
	492		Rajasthan Royals		Chennai Super Kings
	493		Punjab Kings		Kolkata Knight Riders
	494		_	Royal	Challengers Bangalore
##	495		Chennai Super Kings		Sunrisers Hyderabad
	496		Mumbai Indians		Rajasthan Royals
##	497		Punjab Kings	Royal	Challengers Bangalore
##	498		Kolkata Knight Riders		Rajasthan Royals
##	499		Mumbai Indians		Punjab Kings
##	500	Royal	Challengers Bangalore		Sunrisers Hyderabad
##	501		Delhi Capitals		Chennai Super Kings
##	502		Rajasthan Royals	Royal	Challengers Bangalore
##	503		Sunrisers Hyderabad		Kolkata Knight Riders
##	504		Delhi Capitals		Mumbai Indians
##	505		Chennai Super Kings		Punjab Kings
##	506		Sunrisers Hyderabad		Chennai Super Kings
##	507		Kolkata Knight Riders		Rajasthan Royals
##	508		Kolkata Knight Riders		Sunrisers Hyderabad
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				Royal	Challengers Bangalore Sunrisers Hyderabad

	512		Mumbai Indians		Delhi Capitals
	513		Rajasthan Royals		Punjab Kings
	514		Delhi Capitals		Chennai Super Kings
	515		Kolkata Knight Riders		Punjab Kings
		Royal	Challengers Bangalore		Mumbai Indians
	517		Sunrisers Hyderabad		Rajasthan Royals
	518		Punjab Kings		Mumbai Indians
	519		Delhi Capitals		Kolkata Knight Riders
	520			Royal	Challengers Bangalore
	521		Chennai Super Kings		Rajasthan Royals
	522		Punjab Kings		Delhi Capitals
	523		=	Royal	Challengers Bangalore
##	524		Mumbai Indians		Chennai Super Kings
	525		Delhi Capitals		Sunrisers Hyderabad
##	526	Royal	Challengers Bangalore		Kolkata Knight Riders
##	527		Chennai Super Kings		Punjab Kings
##	528		Sunrisers Hyderabad		Mumbai Indians
##	529	Royal	Challengers Bangalore		Delhi Capitals
##	530		Rajasthan Royals		Kolkata Knight Riders
##	531		Punjab Kings		Sunrisers Hyderabad
##	532		Chennai Super Kings		Kolkata Knight Riders
##	533		Mumbai Indians		Punjab Kings
##	534		Rajasthan Royals		Chennai Super Kings
##	535		Kolkata Knight Riders		Delhi Capitals
##	536		Mumbai Indians		Rajasthan Royals
##	537		Punjab Kings	Royal	Challengers Bangalore
##	538		Kolkata Knight Riders		Chennai Super Kings
##	539		Sunrisers Hyderabad		Delhi Capitals
##	540		Mumbai Indians	Royal	Challengers Bangalore
##	541		Punjab Kings		Rajasthan Royals
##	542		Sunrisers Hyderabad		Chennai Super Kings
##	543		Delhi Capitals		Mumbai Indians
##	544		Kolkata Knight Riders	Royal	Challengers Bangalore
##	545		Rajasthan Royals		Mumbai Indians
##	546		Delhi Capitals		Punjab Kings
##	547		Sunrisers Hyderabad		Kolkata Knight Riders
##	548	Royal	Challengers Bangalore		Chennai Super Kings
##	549	-	Rajasthan Royals		Delhi Capitals
##	550		Chennai Super Kings		Sunrisers Hyderabad
##	551	Royal	Challengers Bangalore		Punjab Kings
	552	Ū	Kolkata Knight Riders		Rajasthan Royals
##	553		Chennai Super Kings		Mumbai Indians
##	554		Rajasthan Royals		Sunrisers Hyderabad
##	555		-	Royal	Challengers Bangalore
##	556		Kolkata Knight Riders	·	Mumbai Indians
##	557		Sunrisers Hyderabad		Punjab Kings
	558		Chennai Super Kings		Delhi Capitals
	559		Mumbai Indians		Sunrisers Hyderabad
	560		Punjab Kings		Kolkata Knight Riders
	561		Delhi Capitals		Rajasthan Royals
		Royal	Challengers Bangalore		Sunrisers Hyderabad
	563	J	Punjab Kings		Chennai Super Kings
	564		Mumbai Indians		Kolkata Knight Riders
	565		Mumbai Indians		Chennai Super Kings
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	566		Delhi Capitals		Sunrisers Hyderabad
	567		Chennai Super Kings Mumbai Indians		Delhi Capitals
	568				Chennai Super Kings
	569		Mumbai Indians		Chennai Super Kings
	570	±			Punjab Kings
	571	Kolkata Knight Rider		Royal	
	572		Mumbai Indians		Sunrisers Hyderabad
	573		Rajasthan Royals		Chennai Super Kings
	574		Kolkata Knight Riders		Delhi Capitals
	575		Punjab Kings		Sunrisers Hyderabad
		Royal	Challengers Bangalore		Mumbai Indians
	577		Delhi Capitals		Rajasthan Royals
	578		Kolkata Knight Riders		Chennai Super Kings
##	579	Royal	Challengers Bangalore		Sunrisers Hyderabad
##	580		Mumbai Indians		Punjab Kings
##	581		Kolkata Knight Riders		Rajasthan Royals
##	582	Royal	Challengers Bangalore		Delhi Capitals
##	583		Punjab Kings		Chennai Super Kings
##	584		Sunrisers Hyderabad		Rajasthan Royals
##	585		Mumbai Indians		Kolkata Knight Riders
##	586		Chennai Super Kings		Delhi Capitals
##	587		Punjab Kings	Royal	Challengers Bangalore
##	588		Mumbai Indians		Rajasthan Royals
##	589		Kolkata Knight Riders		Sunrisers Hyderabad
##	590		Punjab Kings		Chennai Super Kings
##	591		Rajasthan Royals	Royal	Challengers Bangalore
##	592		Delhi Capitals		Kolkata Knight Riders
##	593		Sunrisers Hyderabad		Chennai Super Kings
##	594		Mumbai Indians		Punjab Kings
##	595		Rajasthan Royals		Sunrisers Hyderabad
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## ## ## ## ## ##	597 598 599 600 601 602 603 604	Royal	Kolkata Knight Riders Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Sunrisers Hyderabad Challengers Bangalore Kolkata Knight Riders Punjab Kings Chennai Super Kings		Punjab Kings Mumbai Indians Challengers Bangalore Punjab Kings Delhi Capitals Chennai Super Kings Mumbai Indians
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	620	Povol	Delhi Capitals Challengers Bangalore	Chennai Super Kings
	622	noyai	Sunrisers Hyderabad	Kolkata Knight Riders
	623		Delhi Capitals	Punjab Kings
		Rowal	Challengers Bangalore	Mumbai Indians
	625	noyar	Mumbai Indians	Delhi Capitals
		Rowal	Challengers Bangalore	Sunrisers Hyderabad
	627	noyar	Delhi Capitals	Sunrisers Hyderabad
	628		Delhi Capitals	Mumbai Indians
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	1		Kolkata Knight Riders	
##			Chennai Super Kings	
##			Delhi Capitals	
##		Roval	Challengers Bangalore	
##		100) 41	Rajasthan Royals	
##			Chennai Super Kings	
	7		Punjab Kings	
##			Rajasthan Royals	
##			Chennai Super Kings	
##			Punjab Kings	
##	11		Chennai Super Kings	
##	12		Mumbai Indians	
##	13		Delhi Capitals	
##	14		Rajasthan Royals	
##	15		Delhi Capitals	
##	16		Punjab Kings	
##	17		Mumbai Indians	
##	18		Rajasthan Royals	
##	19		Punjab Kings	
##			Mumbai Indians	
##			Chennai Super Kings	
	22		Kolkata Knight Riders	
##			Mumbai Indians	
##			Chennai Super Kings	
##			Rajasthan Royals	
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##			Kolkata Knight Riders	
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##			Rajasthan Royals	
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##		Roval	Challengers Bangalore	
##		,	Delhi Capitals	
##			Rajasthan Royals	
##			Kolkata Knight Riders	
##			Rajasthan Royals	
	42		Rajasthan Royals	
##	43		Chennai Super Kings	
##	44		Rajasthan Royals	

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## 128
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## 131
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## 132
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## 134
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## 135
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## 136
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## 137
             Kolkata Knight Riders
## 138
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## 139
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## 140
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                     Delhi Capitals
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## 142
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## 143
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## 144
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## 145
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## 146
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## 147
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## 148
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## 149
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## 150
                    Mumbai Indians
## 151
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## 152
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## 153 Royal Challengers Bangalore
## 154
               Chennai Super Kings
## 155 Royal Challengers Bangalore
                      Punjab Kings
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## 173
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## 175
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## 189
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## 190
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## 191
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## 192
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## 193
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## 199
               Chennai Super Kings
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## 206
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## 211 Royal Challengers Bangalore
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## 213
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               Sunrisers Hyderabad
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                    Mumbai Indians
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## 270
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## 271 Royal Challengers Bangalore
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## 274 Royal Challengers Bangalore
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## 276
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## 279
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## 280
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## 281
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## 282
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## 283
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## 284
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## 285
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## 288
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## 292
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  293 Royal Challengers Bangalore
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## 310
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## 311 Royal Challengers Bangalore
## 312
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## 313
                    Mumbai Indians
## 314
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## 317
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## 319
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## 320
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## 321
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## 322
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## 323
             Kolkata Knight Riders
## 324
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## 325
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## 326
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## 327
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## 328
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## 329
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## 331
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## 332
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## 333
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## 337
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## 338
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## 339
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## 340
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## 342
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## 343
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## 344
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## 345
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## 346
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## 347
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## 348
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## 349
               Sunrisers Hyderabad
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## 351
                     Delhi Capitals
## 352 Royal Challengers Bangalore
## 353
                     Mumbai Indians
## 354
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   355 Royal Challengers Bangalore
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## 358
               Chennai Super Kings
## 359
                     Delhi Capitals
## 360
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## 361 Royal Challengers Bangalore
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## 364
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## 368 Royal Challengers Bangalore
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## 370
                     Mumbai Indians
## 371
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## 373
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## 374
               Chennai Super Kings
## 375
               Sunrisers Hyderabad
## 376
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## 382
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   384 Royal Challengers Bangalore
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               Chennai Super Kings
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## 387
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  388 Royal Challengers Bangalore
## 389
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## 390
                     Delhi Capitals
## 391
             Kolkata Knight Riders
## 392
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## 393
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## 394
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## 396
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## 402
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## 403
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## 404
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## 405
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## 406 Royal Challengers Bangalore
## 407
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## 408
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## 409
                      Punjab Kings
## 410
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## 411
                     Mumbai Indians
## 412 Royal Challengers Bangalore
## 413 Royal Challengers Bangalore
## 414
                     Delhi Capitals
## 415
             Kolkata Knight Riders
## 416 Royal Challengers Bangalore
## 417
               Sunrisers Hyderabad
## 418
               Sunrisers Hyderabad
## 419
               Sunrisers Hyderabad
## 420 Royal Challengers Bangalore
## 421
                    Mumbai Indians
## 422
                      Punjab Kings
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##	423		Mumbai Indians
##	424		Kolkata Knight Riders
##	425		Mumbai Indians
##	426		Kolkata Knight Riders
##	427		Delhi Capitals
##	428		Kolkata Knight Riders
##	429		Sunrisers Hyderabad
##	430		Sunrisers Hyderabad
##	431		Mumbai Indians
##	432		Mumbai Indians
##	433		Kolkata Knight Riders
##	434		Kolkata Knight Riders
##	435		Sunrisers Hyderabad
##	436		Punjab Kings
##	437		Sunrisers Hyderabad
##	438		Mumbai Indians
##	439		Delhi Capitals
##	440		Punjab Kings
##	441		Mumbai Indians
##	442		Kolkata Knight Riders
##	443		Sunrisers Hyderabad
##	444		Punjab Kings
##	445		Punjab Kings
##	446		Mumbai Indians
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##	448		Kolkata Knight Riders Mumbai Indians
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##	450		Chennai Super Kings
##	451		Punjab Kings
##	452		Kolkata Knight Riders
##	453		Sunrisers Hyderabad
	454		Chennai Super Kings
	455		Rajasthan Royals
	456		Sunrisers Hyderabad
##	457	Royal	${\tt Challengers\ Bangalore}$
##	458		Delhi Capitals
##	459		Sunrisers Hyderabad
##	460		Rajasthan Royals
##	461		Punjab Kings
##	462		Kolkata Knight Riders
##	463		Mumbai Indians
##	464		Kolkata Knight Riders
##	465		Punjab Kings
##	466		Chennai Super Kings
##	467		Punjab Kings
##	468	Roval	Challengers Bangalore
	469	J	Chennai Super Kings
	470		Rajasthan Royals
	471		Punjab Kings
	472		Sunrisers Hyderabad
	473		Chennai Super Kings
	474		Sunrisers Hyderabad
	475		Delhi Capitals
	476		Mumbai Indians
##	±10		riumpai iliuians

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## 477
               Sunrisers Hyderabad
## 478
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## 479
               Chennai Super Kings
## 480 Royal Challengers Bangalore
                     Delhi Capitals
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## 482
             Kolkata Knight Riders
## 483
                     Mumbai Indians
## 484
               Chennai Super Kings
## 485
               Sunrisers Hyderabad
## 486
                     Mumbai Indians
## 487
                       Punjab Kings
## 488
               Sunrisers Hyderabad
## 489
                  Rajasthan Royals
                    Mumbai Indians
## 490
## 491
               Sunrisers Hyderabad
## 492
                   Rajasthan Royals
## 493
             Kolkata Knight Riders
## 494 Royal Challengers Bangalore
## 495
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## 496
                   Rajasthan Royals
## 497 Royal Challengers Bangalore
## 498
             Kolkata Knight Riders
                     Mumbai Indians
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## 500 Royal Challengers Bangalore
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                     Delhi Capitals
## 502
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## 503
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## 504
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## 505
               Chennai Super Kings
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               Chennai Super Kings
## 507
             Kolkata Knight Riders
## 508
               Sunrisers Hyderabad
## 509
               Chennai Super Kings
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               Chennai Super Kings
## 511
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## 512
                    Delhi Capitals
## 513
                       Punjab Kings
## 514
               Chennai Super Kings
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             Kolkata Knight Riders
                     Mumbai Indians
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## 517
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## 518
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## 519
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## 520
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## 529
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## 530
             Kolkata Knight Riders
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## 531
                       Punjab Kings
## 532
               Chennai Super Kings
## 533
                    Mumbai Indians
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## 536
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## 537 Royal Challengers Bangalore
## 538
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## 541
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## 542
               Sunrisers Hyderabad
## 543
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## 544 Royal Challengers Bangalore
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## 547
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## 548 Royal Challengers Bangalore
## 549
                     Delhi Capitals
## 550
               Chennai Super Kings
## 551 Royal Challengers Bangalore
## 552
                  Rajasthan Royals
## 553
                     Mumbai Indians
## 554
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## 555
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## 556
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               Sunrisers Hyderabad
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## 559
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## 560
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## 561
                     Delhi Capitals
## 562 Royal Challengers Bangalore
## 563
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## 564
                     Mumbai Indians
## 565
                     Mumbai Indians
## 566
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## 567
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## 568
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## 569
               Chennai Super Kings
## 570
                     Delhi Capitals
## 571 Royal Challengers Bangalore
## 572
               Sunrisers Hyderabad
## 573
                  Rajasthan Royals
## 574
             Kolkata Knight Riders
## 575
                       Punjab Kings
## 576
                     Mumbai Indians
## 577
                     Delhi Capitals
## 578
             Kolkata Knight Riders
## 579
               Sunrisers Hyderabad
## 580
                     Mumbai Indians
## 581
             Kolkata Knight Riders
## 582
                    Delhi Capitals
## 583
               Chennai Super Kings
## 584
                  Rajasthan Royals
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## 585
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## 586
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## 587
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                    Mumbai Indians
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## 589
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## 590
               Chennai Super Kings
## 591 Royal Challengers Bangalore
## 592
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## 593
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## 594
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## 596
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## 597
                       Punjab Kings
## 598
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## 599 Royal Challengers Bangalore
## 600
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## 601
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## 602 Royal Challengers Bangalore
## 603
                    Mumbai Indians
## 604
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## 606
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## 607
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## 608
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## 609
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## 610
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## 611 Royal Challengers Bangalore
## 612
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## 613
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## 614
                  Rajasthan Royals
## 615
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## 617 Royal Challengers Bangalore
## 618
                  Rajasthan Royals
## 619
               Sunrisers Hyderabad
## 620
                    Delhi Capitals
## 621
               Chennai Super Kings
## 622
             Kolkata Knight Riders
## 623
                       Punjab Kings
## 624 Royal Challengers Bangalore
## 625
                     Mumbai Indians
## 626
               Sunrisers Hyderabad
## 627
                     Delhi Capitals
##
  628
                     Mumbai Indians
##
                                                        venue
                                   M. A. Chidambaram Stadium
## 1
##
                 Punjab Cricket Association Stadium, Mohali
## 3
                                             Feroz Shah Kotla
## 4
                                             Wankhede Stadium
## 5
                                      Sawai Mansingh Stadium
## 6
                                   M. A. Chidambaram Stadium
## 7
                 Punjab Cricket Association Stadium, Mohali
## 8
                                   M. A. Chidambaram Stadium
## 9
                                   M. A. Chidambaram Stadium
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## 10	Punjab Cricket	Association Stadium, Mohali
## 11 ## 12		M. A. Chidambaram Stadium
		Eden Gardens Feroz Shah Kotla
## 13 ## 14		
## 14 ## 15		Sawai Mansingh Stadium M. A. Chidambaram Stadium
## 16	Dunish Cricket	
## 10 ## 17	runjab Cricket	Association Stadium, Mohali
## 17 ## 18		Dr DY Patil Sports Academy
## 19		Sawai Mansingh Stadium M. A. Chidambaram Stadium
## 19		Dr DY Patil Sports Academy
## 20 ## 21		Feroz Shah Kotla
## 22		Eden Gardens
## 23		M. A. Chidambaram Stadium
## 24		M. A. Chidambaram Stadium
## 25		Sawai Mansingh Stadium
## 26	Puniah Cricket	Association Stadium, Mohali
## 27	runjub orienco	Eden Gardens
## 28		Wankhede Stadium
## 29	Puniab Cricket	Association Stadium, Mohali
## 30	J	Wankhede Stadium
## 31		Feroz Shah Kotla
## 32		Sawai Mansingh Stadium
## 33		Eden Gardens
## 34		M. A. Chidambaram Stadium
## 35		Eden Gardens
## 36		Wankhede Stadium
## 37		M. A. Chidambaram Stadium
## 38		Feroz Shah Kotla
## 39		M. A. Chidambaram Stadium
## 40		Eden Gardens
## 41		Sawai Mansingh Stadium
## 42		Wankhede Stadium
## 43		Wankhede Stadium
## 44		Dr DY Patil Sports Academy
## 45		Newlands
## 46		Newlands
## 47		Newlands
## 48 ## 49		St George's Park
## 49 ## 50		Kingsmead
## 50 ## 51		Kingsmead Newlands
## 51 ## 52		Kingsmead
## 53		St George's Park
## 54		Newlands
## 55		St George's Park
## 56		SuperSport Park
## 57		Kingsmead
## 58		Kingsmead
## 59		SuperSport Park
## 60		Buffalo Park
## 61		Kingsmead
## 62		New Wanderers Stadium
## 63		St George's Park

	64	New Wanderers Stadium
	65	Kingsmead
	66	Kingsmead
	67	SuperSport Park
	68	SuperSport Park
	69	Buffalo Park
##	70	De Beers Diamond Oval
##	71	St George's Park
##	72	New Wanderers Stadium
##	73	SuperSport Park
##	74	SuperSport Park
##	75	Kingsmead
##	76	Kingsmead
##	77	OUTsurance Oval
##	78	St George's Park
##	79	OUTsurance Oval
##	80	SuperSport Park
##	81	New Wanderers Stadium
##	82	Kingsmead
##	83	Kingsmead
##	84	SuperSport Park
##	85	New Wanderers Stadium
##	86	Brabourne Stadium
##	87	Punjab Cricket Association Stadium, Mohali
##	88	Eden Gardens
##	89	Sardar Patel Stadium, Motera
##	90	M. A. Chidambaram Stadium
##	91	Eden Gardens
##	92	Feroz Shah Kotla
##	93	M. A. Chidambaram Stadium
##	94	Feroz Shah Kotla
##	95	Sardar Patel Stadium, Motera
##	96	Brabourne Stadium
##	97	M. A. Chidambaram Stadium
##	98	Brabourne Stadium
##	99	M. A. Chidambaram Stadium
##	100	Punjab Cricket Association Stadium, Mohali
##	101	Brabourne Stadium
##	102	Punjab Cricket Association Stadium, Mohali
	103	M. A. Chidambaram Stadium
	104	Sardar Patel Stadium, Motera
	105	Feroz Shah Kotla
	106	Brabourne Stadium
	107	M. A. Chidambaram Stadium
	108	Feroz Shah Kotla
	109	Punjab Cricket Association Stadium, Mohali
	110	M. A. Chidambaram Stadium
	111	H. H. Chitdambaram Stautum Eden Gardens
	112	Feroz Shah Kotla
	113	M. A. Chidambaram Stadium
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	114	Sawai Mansingh Stadium Eden Gardens
	116	Punjab Cricket Association Stadium, Mohali
##	117	M. A. Chidambaram Stadium

##	118				_	Feroz Sha	
##	119				Sat	wai Mansingh	
##	120					Brabourne	
##	121			М.		Chidambaram	
##	122					wai Mansingh	
##	123			М.		Chidambaram	
##	124			М.	Α.	Chidambaram	
##	125						Gardens
##	126	Himachal	Pradesh	Crick	ĸet	Association	
##	127						Gardens
##	128					Patil Sports	_
##	129					Patil Sports	•
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##	131					Feroz Sha	
##	132				Sat	wai Mansingh	Stadium
##	133					Chidambaram	
##	134	Punjab	Cricket	Asso		tion Stadium	
##	135				Sar	wai Mansingh	Stadium
	136			М.	Α.	Chidambaram	Stadium
	137					Eden	Gardens
	138	Punjab	Cricket	Asso	ciat	tion Stadium	, Mohali
##	139					Wankhede	Stadium
	140						Gardens
	141					Feroz Sha	ah Kotla
##	142					Feroz Sha	
	143					Feroz Sha	
	144				Sat	wai Mansingh	
	145					Eden	Gardens
##	146					Wankhede	Stadium
##	147			М.	A.	Chidambaram	Stadium
##	148			М.	A.	Chidambaram	Stadium
##	149						Gardens
##	150					Wankhede	Stadium
##	151				Sat	wai Mansingh	${\tt Stadium}$
##	152	Punjab	Cricket	Asso	ciat	tion Stadium	, Mohali
##	153				Sat	wai Mansingh	Stadium
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##	155			М.	Α.	${\tt Chidambaram}$	${\tt Stadium}$
##	156	Himachal	Pradesh	Crick	ĸet	Association	${\tt Stadium}$
##	157	Himachal	Pradesh	Crick	ĸet	Association	${\tt Stadium}$
##	158					Wankhede	${\tt Stadium}$
##	159			М.	A.	${\tt Chidambaram}$	${\tt Stadium}$
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##	161					Wankhede	${\tt Stadium}$
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##	164			М.	A.	${\tt Chidambaram}$	${\tt Stadium}$
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##	166					Eden	${\tt Gardens}$
##	167				Sat	wai Mansingh	${\tt Stadium}$
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##	169				Sat	wai Mansingh	${\tt Stadium}$
##	170			М.	Α.	${\tt Chidambaram}$	${\tt Stadium}$
##	171					Feroz Sha	ah Kotla

##	172				Wankhede Stadium
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##	176			М.	A. Chidambaram Stadium
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##	179	Punjab	Cricket		ciation Stadium, Mohali
##	180			М.	A. Chidambaram Stadium
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	201				Wankhede Stadium
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	204	Himachal	Pradesh	Cricl	ket Association Stadium
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	206			Sub	rata Roy Sahara Stadium
	207				A. Chidambaram Stadium
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	216				Wankhede Stadium
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	231		M. A. Chidambaram Stadium
	232	Himachal	Pradesh Cricket Association Stadium
	233		Eden Gardens
	234		M. A. Chidambaram Stadium
	235		Eden Gardens
	236		Sawai Mansingh Stadium
	237		Wankhede Stadium
	238		M. A. Chidambaram Stadium
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##	240		Wankhede Stadium
##	241	Rajiv	Gandhi International Stadium, Uppal
##	242	Shaheed Veer	${\tt Narayan\ Singh\ International\ Stadium}$
##	243		M. A. Chidambaram Stadium
##	244		Eden Gardens
##	245	Rajiv	Gandhi International Stadium, Uppal
##	246		M. A. Chidambaram Stadium
##	247		Wankhede Stadium
##	248		M. A. Chidambaram Stadium
##	249		Sawai Mansingh Stadium
##	250		Wankhede Stadium
##	251	Rajiv	Gandhi International Stadium, Uppal
##	252		Cricket Association Stadium, Mohali
##	253	•	Feroz Shah Kotla
##	254	Punjab	Cricket Association Stadium, Mohali
##	255	· ·	JSCA International Stadium Complex
##	256		Sawai Mansingh Stadium
##	257		Feroz Shah Kotla
##	258		Wankhede Stadium
##	259		M. A. Chidambaram Stadium
##	260		Wankhede Stadium
##	261	Punjab	Cricket Association Stadium, Mohali
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##	263		Pradesh Cricket Association Stadium
	264		M. A. Chidambaram Stadium
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	267		Feroz Shah Kotla
	268		Eden Gardens
	269		Eden Gardens
	270		Sheikh Zayed Stadium
	271		Sharjah Cricket Stadium
	272		Sharjan Cricket Stadium Sheikh Zayed Stadium
	273		Sheikh Zayed Stadium Sheikh Zayed Stadium
	274		Dubai International Cricket Stadium
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	280	Sharjah Cricket Stadium
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	289	Dubai International Cricket Stadium
	290	JSCA International Stadium Complex
	291	Wankhede Stadium
	292	Feroz Shah Kotla
	293	M. A. Chidambaram Stadium
	294	Sardar Patel Stadium, Motera
	295	Feroz Shah Kotla
	296	Wankhede Stadium
	297	Feroz Shah Kotla
	298	Barabati Stadium
	299	Sardar Patel Stadium, Motera
	300	M. A. Chidambaram Stadium
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	303	Barabati Stadium
	304	M. A. Chidambaram Stadium
	305	Rajiv Gandhi International Stadium, Uppal
	306	JSCA International Stadium Complex
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	310	Sardar Patel Stadium, Motera
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	312	JSCA International Stadium Complex
	313	Rajiv Gandhi International Stadium, Uppal Sardar Patel Stadium, Motera
	314	Feroz Shah Kotla
	315	Rajiv Gandhi International Stadium, Uppal
	316	Eden Gardens
	317	Punjab Cricket Association Stadium, Mohali
	318	Eden Gardens
	319	JSCA International Stadium Complex
	320	Wankhede Stadium
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	323	Eden Gardens
	324	Punjab Cricket Association Stadium, Mohali
	325	Wankhede Stadium
	326	Eden Gardens
	327	Brabourne Stadium
	328	Wankhede Stadium
	329	M. A. Chidambaram Stadium
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	334	Eden Gardens
	335	Feroz Shah Kotla
##	336	Wankhede Stadium
##	337	M. A. Chidambaram Stadium
	338	Sardar Patel Stadium, Motera
	339	Eden Gardens
	340	Maharashtra Cricket Association Stadium
##	341	Dr. Y.S. Rajasekhara Reddy ACA-VDCA Cricket Stadium
	342	Wankhede Stadium
##	343	Dr. Y.S. Rajasekhara Reddy ACA-VDCA Cricket Stadium
##	344	Maharashtra Cricket Association Stadium
##	345	Sardar Patel Stadium, Motera
##	346	M. A. Chidambaram Stadium
##	347	Feroz Shah Kotla
##	348	Sardar Patel Stadium, Motera
##	349	Dr. Y.S. Rajasekhara Reddy ACA-VDCA Cricket Stadium
##	350	M. A. Chidambaram Stadium
##	351	Feroz Shah Kotla
##	352	Sardar Patel Stadium, Motera
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##	355	Feroz Shah Kotla
##	356	Punjab Cricket Association Stadium, Mohali
##	357	Eden Gardens
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##	362	Rajiv Gandhi International Stadium, Uppal
##	363	Punjab Cricket Association Stadium, Mohali
##	364	Brabourne Stadium
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##	367	Wankhede Stadium
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##	369	Brabourne Stadium
##	370	M. A. Chidambaram Stadium
##	371	Eden Gardens
##	372	Shaheed Veer Narayan Singh International Stadium
##	373	Wankhede Stadium
##	374	M. A. Chidambaram Stadium
##	375	Rajiv Gandhi International Stadium, Uppal
	376	Shaheed Veer Narayan Singh International Stadium
##	377	Punjab Cricket Association Stadium, Mohali
##	378	Wankhede Stadium
	379	Rajiv Gandhi International Stadium, Uppal
	380	Punjab Cricket Association Stadium, Mohali
	381	Brabourne Stadium
	382	Rajiv Gandhi International Stadium, Uppal
	383	Wankhede Stadium
	384	Maharashtra Cricket Association Stadium
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######################################	470 471 472 473 474 475 476 477 480 481 482 483 484 485 486 487 488		Rajiv Maha Maha Maha Rajiv	Gandhi rashtra rashtra Gandhi	Inter a Cric a Cric a Cric Inter	M.Conatic Eket A Sawa M.Co Eket A M.Co Holk Eket A	Wankhee Chinnaswa onal Stad Feroz Associati di Mansin Chinnaswa Ed Chinnaswa Feroz Ed Car Crick Associati onal Stad Wankhee Car Crick Onal Stad di Mansin	gh Stadium Shah Kotla de Stadium my Stadium ium, Uppal Shah Kotla on Stadium my Stadium my Stadium my Stadium on Stadium my Stadium on Stadium shah Kotla en Gardens et Stadium ium, Uppal de Stadium et Stadium ium, Uppal
######################################	470 471 472 473 474 475 476 477 480 481 482 483 484 485 486 487 488		Rajiv Maha Maha Maha Rajiv	Gandhi rashtra rashtra Gandhi	Inter a Cric a Cric a Cric Inter	M.Conatic Eket A Sawa M.Co Eket A M.Co Holk Eket A	Wankher Chinnaswa onal Stad Feroz Associati Ai Mansin Chinnaswa Ed Star Crick Associati Onal Stad Wankher Car Crick Onal Stad Wankher Car Crick Onal Stad Ai Mansin Ed	gh Stadium Shah Kotla de Stadium my Stadium ium, Uppal Shah Kotla on Stadium my Stadium my Stadium on Stadium my Stadium on Stadium on Stadium ium, Stadium on Stadium on Stadium et Stadium et Stadium et Stadium ium, Uppal gh Stadium
######################	470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490		Rajiv Maha Maha Maha Rajiv	Gandhi rashtra rashtra Gandhi	Inter a Cric a Cric a Cric Inter	M.Conation Eket A Sawa M.Co Eket A M.Co Holk Eket A Thatic Thatic	Wankher Chinnaswa Dnal Stad Feroz Associati Ai Mansin Chinnaswa Associati Chinnaswa Feroz Ed Gar Crick Associati Dnal Stad Wankher Gar Crick Dnal Stad Wankher Gar Crick Dnal Stad Mansin Ed Feroz	gh Stadium Shah Kotla de Stadium my Stadium ium, Uppal Shah Kotla on Stadium gh Stadium my Stadium my Stadium my Stadium shah Kotla en Gardens et Stadium ium, Uppal de Stadium et Stadium ium, Uppal gh Stadium en Gardens
#########################	470 471 472 473 474 475 476 477 480 481 482 483 484 485 486 487 488 489 490 491		Rajiv Maha Maha Maha Rajiv	Gandhi rashtra rashtra Gandhi	Inter a Cric a Cric a Cric Inter	M.Conation M.Conation M.Co. Sawa M.Co. Holk M.Co. Holk Chation Sawa Sawa Sawa	Wankher Wankher Chinnaswa Dnal Stad Feroz Associati Ai Mansin Chinnaswa Associati Chinnaswa Feroz Ed Car Crick Associati Dnal Stad Wankher Car Crick Chal Stad Wankher Car Crick Chal Stad Wankher Car Crick Chal Stad C	gh Stadium Shah Kotla de Stadium my Stadium ium, Uppal Shah Kotla on Stadium gh Stadium my Stadium my Stadium my Stadium shah Kotla en Gardens et Stadium on Stadium ium, Uppal de Stadium et Stadium et Stadium ium, Uppal gh Stadium en Gardens Shah Kotla
########################	470 471 472 473 474 475 476 477 480 481 482 483 484 485 486 487 488 489 490 491 492		Rajiv Maha Maha Maha Rajiv	Gandhi rashtra rashtra Gandhi	Inter a Cric a Cric a Cric Inter	M.Conation M.Conation M.Conation M.Conation M.Conation M.Conation M.Conation M.Conation Sawa	Wankher Wankher Chinnaswar Stad Feroz Stad Sasociati Chinnaswar Feroz Ed Sasociati Chinnaswar Feroz Ed Sar Crick Chal Stad Wankher Crick Chal Stad Mansin Ed Feroz Stad Mansin Star Crick Chinnaswar Crick Chal Stad Stad Crick Chal Stad Chal Sta	gh Stadium Shah Kotla de Stadium my Stadium ium, Uppal Shah Kotla on Stadium gh Stadium my Stadium on Stadium my Stadium shah Kotla en Gardens et Stadium ium, Uppal de Stadium et Stadium ium, Uppal de Stadium et Stadium et Stadium et Stadium gh Stadium et Stadium
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## 496
                                            Wankhede Stadium
## 497
                                      Holkar Cricket Stadium
## 498
                                                Eden Gardens
## 499
                                            Wankhede Stadium
## 500
                                       M.Chinnaswamy Stadium
## 501
                                            Feroz Shah Kotla
## 502
                                      Sawai Mansingh Stadium
                  Rajiv Gandhi International Stadium, Uppal
## 503
## 504
                                            Feroz Shah Kotla
## 505
                    Maharashtra Cricket Association Stadium
## 506
                                            Wankhede Stadium
                                                Eden Gardens
## 507
## 508
                                                Eden Gardens
## 509
                                            Wankhede Stadium
## 510
                                   M. A. Chidambaram Stadium
## 511
                                                Eden Gardens
## 512
                                            Wankhede Stadium
## 513
                                      Sawai Mansingh Stadium
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                                            Feroz Shah Kotla
## 515
                                                Eden Gardens
## 516
                                       M.Chinnaswamy Stadium
## 517
                  Rajiv Gandhi International Stadium, Uppal
## 518 Punjab Cricket Association IS Bindra Stadium, Mohali
                                            Feroz Shah Kotla
## 519
## 520
                  Rajiv Gandhi International Stadium, Uppal
## 521
                                   M. A. Chidambaram Stadium
## 522
       Punjab Cricket Association IS Bindra Stadium, Mohali
## 523
                                      Sawai Mansingh Stadium
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                                            Wankhede Stadium
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                                            Feroz Shah Kotla
## 526
                                       M.Chinnaswamy Stadium
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## 528
                  Rajiv Gandhi International Stadium, Uppal
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## 531 Punjab Cricket Association IS Bindra Stadium, Mohali
## 532
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## 533
                                            Wankhede Stadium
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                                                Eden Gardens
## 536
                                            Wankhede Stadium
## 537
      Punjab Cricket Association IS Bindra Stadium, Mohali
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## 539
                  Rajiv Gandhi International Stadium, Uppal
## 540
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## 541 Punjab Cricket Association IS Bindra Stadium, Mohali
## 542
                  Rajiv Gandhi International Stadium, Uppal
## 543
                                            Feroz Shah Kotla
## 544
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## 545
                                      Sawai Mansingh Stadium
## 546
                                            Feroz Shah Kotla
## 547
                  Rajiv Gandhi International Stadium, Uppal
## 548
                                       M.Chinnaswamy Stadium
## 549
                                      Sawai Mansingh Stadium
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## 550
                                   M. A. Chidambaram Stadium
## 551
                                       M.Chinnaswamy Stadium
## 552
                                                Eden Gardens
## 553
                                   M. A. Chidambaram Stadium
## 554
                                      Sawai Mansingh Stadium
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                  Rajiv Gandhi International Stadium, Uppal
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## 558
                                   M. A. Chidambaram Stadium
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## 560 Punjab Cricket Association IS Bindra Stadium, Mohali
## 561
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## 563 Punjab Cricket Association IS Bindra Stadium, Mohali
## 564
                                            Wankhede Stadium
## 565
                                   M. A. Chidambaram Stadium
## 566
        Dr. Y.S. Rajasekhara Reddy ACA-VDCA Cricket Stadium
## 567
        Dr. Y.S. Rajasekhara Reddy ACA-VDCA Cricket Stadium
## 568
                  Rajiv Gandhi International Stadium, Uppal
## 569
                                        Sheikh Zayed Stadium
## 570
                        Dubai International Cricket Stadium
## 571
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## 572
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## 573
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                        Dubai International Cricket Stadium
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                        Dubai International Cricket Stadium
## 602
                        Dubai International Cricket Stadium
## 603
                                        Sheikh Zayed Stadium
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## 604
                                      Sharjah Cricket Stadium
## 605
                         Dubai International Cricket Stadium
## 606
                                         Sheikh Zayed Stadium
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                         Dubai International Cricket Stadium
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                                     Sharjah Cricket Stadium
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## 613
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## 615
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## 616
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                         Dubai International Cricket Stadium
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## 625
                         Dubai International Cricket Stadium
## 626
                                         Sheikh Zayed Stadium
## 627
                                         Sheikh Zayed Stadium
## 628
                         Dubai International Cricket Stadium
##
                        toss winner toss decision
## 1
       Royal Challengers Bangalore
                                             field
##
               Chennai Super Kings
                                               bat
## 3
                   Rajasthan Royals
                                               bat
## 4
                     Mumbai Indians
                                               bat
## 5
                       Punjab Kings
                                               bat
##
                     Mumbai Indians
                                             field
## 7
                    Mumbai Indians
                                             field
## 8
                                             field
                   Rajasthan Royals
## 9
             Kolkata Knight Riders
                                               bat
## 10
                     Delhi Capitals
                                               bat
## 11
               Chennai Super Kings
                                               bat
## 12
             Kolkata Knight Riders
                                               hat
       Royal Challengers Bangalore
                                             field
## 14
                   Rajasthan Royals
                                               bat.
## 15
               Chennai Super Kings
                                               bat
## 16
                       Punjab Kings
                                               bat.
## 17
                     Delhi Capitals
                                             field
## 18
               Chennai Super Kings
                                               bat
## 19
                                             field
                       Punjab Kings
## 20
                     Mumbai Indians
                                             field
## 21
               Chennai Super Kings
                                             field
## 22
             Kolkata Knight Riders
                                               bat
## 23
                    Mumbai Indians
                                             field
## 24
                       Punjab Kings
                                             field
## 25
                  Rajasthan Royals
                                             field
## 26
       Royal Challengers Bangalore
                                               bat
## 27
             Kolkata Knight Riders
                                               bat
## 28
                     Mumbai Indians
                                             field
```

##	29		Rajasthan Royals	field
##	30		Mumbai Indians	field
##	31		Delhi Capitals	bat
##	32	Royal	Challengers Bangalore	field
##	33		Kolkata Knight Riders	bat
##	34		Delhi Capitals	field
##	35		Rajasthan Royals	field
##	36		Mumbai Indians	field
##	37	Royal	Challengers Bangalore	bat
##	38		Delhi Capitals	field
##	39		Rajasthan Royals	bat
##	40		Punjab Kings	bat
##	41		Rajasthan Royals	field
##	42		Delhi Capitals	field
##	43		Punjab Kings	bat
##	44		Rajasthan Royals	field
##	45		Chennai Super Kings	field
##	46	Royal	Challengers Bangalore	bat
##	47		Delhi Capitals	field
##	48		Chennai Super Kings	bat
##	49		Kolkata Knight Riders	field
##	50		Delhi Capitals	bat
##	51		Kolkata Knight Riders	field
##	52	Royal	Challengers Bangalore	bat
##	53	Royal	Challengers Bangalore	bat
##	54		Punjab Kings	bat
##	55		Mumbai Indians	bat
##	56		Delhi Capitals	bat
##	57		Kolkata Knight Riders	bat
##	58		Punjab Kings	bat
##	59		Rajasthan Royals	field
##	60		Mumbai Indians	bat
##	61	Royal	Challengers Bangalore	bat
##	62		Delhi Capitals	field
##	63		Kolkata Knight Riders	bat
##	64		Mumbai Indians	bat
##	65		Punjab Kings	field
##	66		Kolkata Knight Riders	bat
##	67		Rajasthan Royals	field
##	68		Chennai Super Kings	bat
##	69		Mumbai Indians	bat
##	70		Rajasthan Royals	bat
##	71		Mumbai Indians	bat
##	72		Delhi Capitals	field
##	73	Royal	Challengers Bangalore	field
##	74	-	Punjab Kings	bat
##	75		Chennai Super Kings	bat
##	76		Rajasthan Royals	bat
##	77		Punjab Kings	field
##	78		Mumbai Indians	bat
##	79		Delhi Capitals	bat
##	80		Chennai Super Kings	bat
##	81		Delhi Capitals	bat
##	82		Kolkata Knight Riders	field
			S	

##	83		Chennai Super Kings	bat
##	84		Delhi Capitals	field
##	85	Royal	Challengers Bangalore	field
##	86		Mumbai Indians	bat
##	87		Delhi Capitals	field
##	88		Kolkata Knight Riders	field
##	89		Delhi Capitals	field
##	90		Punjab Kings	bat
##	91		Chennai Super Kings	bat
##	92		Delhi Capitals	field
##	93	Royal	Challengers Bangalore	field
##	94		Delhi Capitals	bat
##	95		Rajasthan Royals	bat
##	96		Mumbai Indians	bat
##	97		Chennai Super Kings	field
##	98		Kolkata Knight Riders	bat
##	99		Chennai Super Kings	field
##	100 101		Punjab Kings Mumbai Indians	field field
##	101			bat
##		Povol	Kolkata Knight Riders	field
##	103	noyar	Challengers Bangalore Rajasthan Royals	bat
##	105		Delhi Capitals	bat
##	106		Mumbai Indians	field
##	107	Roval	Challengers Bangalore	bat
##	108	noyar	Delhi Capitals	bat
##	109		Punjab Kings	bat
##	110		Chennai Super Kings	bat
##	111		Kolkata Knight Riders	bat
##	112		Delhi Capitals	bat
##	113		Chennai Super Kings	bat
##	114		Punjab Kings	bat
##	115		Kolkata Knight Riders	bat
##	116		Mumbai Indians	bat
##	117	Royal	Challengers Bangalore	field
##	118	J	Delhi Capitals	bat
##	119		Rajasthan Royals	field
##	120		Mumbai Indians	bat
##	121		Kolkata Knight Riders	bat
##	122		Rajasthan Royals	bat
##	123		Chennai Super Kings	bat
##	124	Royal	Challengers Bangalore	field
##	125		Rajasthan Royals	bat
##	126		Chennai Super Kings	field
##	127		Mumbai Indians	bat
##	128		Mumbai Indians	bat
##	129		Chennai Super Kings	bat
##	130		Chennai Super Kings	bat
##	131		Delhi Capitals	bat
##	132		Delhi Capitals	bat
##	133		Mumbai Indians	field
##	134		Punjab Kings	field
##	135		Kolkata Knight Riders	field
##	136		Chennai Super Kings	bat

##	137		Kolkata Knight Riders	field
##	138		Rajasthan Royals	field
##	139	_	Chennai Super Kings	field
##		Royal	Challengers Bangalore	field
##	141	_	Punjab Kings	field
##		Royal	Challengers Bangalore	field
##	143		Delhi Capitals	field
##	144		Rajasthan Royals	field
##	145		Kolkata Knight Riders	field
##	146		Punjab Kings	field
##	147		Rajasthan Royals	bat
##	148		Punjab Kings	field
##	149		Chennai Super Kings	bat
##	150		Delhi Capitals	field
##	151		Rajasthan Royals	field
##	152		Mumbai Indians	field
##		Royal	Challengers Bangalore	field
##	154		Chennai Super Kings	bat
##	155	Royal	Challengers Bangalore	field
##	156		Delhi Capitals	field
##	157		Punjab Kings	bat
##	158		Mumbai Indians	bat
##	159	Royal	Challengers Bangalore	field
##	160		Mumbai Indians	field
##	161		Chennai Super Kings	field
##	162		Mumbai Indians	field
##	163		Mumbai Indians	field
##	164		Chennai Super Kings	bat
##	165		Mumbai Indians	field
##	166		Delhi Capitals	field
##	167		Punjab Kings	field
##	168		Delhi Capitals	field
##	169		Kolkata Knight Riders	field
##	170	Royal	Challengers Bangalore	field
##	171		Delhi Capitals	field
##	172		Rajasthan Royals	field
##		Royal	Challengers Bangalore	bat
##	174		Rajasthan Royals	bat
##	175		Kolkata Knight Riders	field
##	176		Rajasthan Royals	bat
##	177		Delhi Capitals	field
##	178		Punjab Kings	bat
##		Royal	Challengers Bangalore	field
##	180		Rajasthan Royals	bat
##	181		Mumbai Indians	bat
##	182		Rajasthan Royals	field
##	183		Punjab Kings	bat
##	184		Mumbai Indians	field
##	185		Punjab Kings	bat
##	186		Kolkata Knight Riders	bat
##	187		Delhi Capitals	bat
##	188		Chennai Super Kings	bat
##	189		Rajasthan Royals	bat
##	190		Punjab Kings	field

##	191	Rajasthan Royals	bat
##	192	Mumbai Indians	field
##	193	Delhi Capitals	bat
##	194	Royal Challengers Bangalore	field
##	195	Chennai Super Kings	field
##	196	Mumbai Indians	bat
##	197	Chennai Super Kings	field
##	198	Mumbai Indians	field
##	199	Chennai Super Kings	field
##	200	Punjab Kings	bat
##	201	Mumbai Indians	field
##	202	Punjab Kings	field
##	203	Delhi Capitals	field
##	204	Delhi Capitals	field
##	205	Rajasthan Royals	bat
##	206	Kolkata Knight Riders	bat
##	207	Mumbai Indians	
##	208	Delhi Capitals	field
##	209	Chennai Super Kings	
##	210	Kolkata Knight Riders	field
##	211	Mumbai Indians	field
##	212	Rajasthan Royals	bat
##	213	Mumbai Indians	
##	214	Royal Challengers Bangalore	bat
##	215	Kolkata Knight Riders	
##	216	Mumbai Indians	bat
##	217	Chennai Super Kings	field
##	218	Royal Challengers Bangalore	
##	219	Delhi Capitals	
##	220	Chennai Super Kings	
##	221	Kolkata Knight Riders	
##	222	Rajasthan Royals	
##	223	Kolkata Knight Riders	
##	224	Royal Challengers Bangalore	
##	225	Rajasthan Royals	
##	226	Chennai Super Kings	
	227	Punjab Kings	
##	228	Kolkata Knight Riders	
##		Royal Challengers Bangalore	
##	230	Mumbai Indians	
##	231	Rajasthan Royals	
##	232	Delhi Capitals	
##	233	Kolkata Knight Riders	
##	234	Sunrisers Hyderabad	
##	235	Punjab Kings	
##	236	Sunrisers Hyderabad	
##	237	Mumbai Indians	
##	238	Kolkata Knight Riders	
##	239	Rajasthan Royals	
##	240	Mumbai Indians	bat
##	241	Mumbai Indians	
	242	Kolkata Knight Riders	
	243	Chennai Super Kings	
##	244	Rajasthan Royals	
##	444	najastiiaii noyals	Dat

	245		Delhi Capitals	bat
##	246		Punjab Kings	field
##	247		Mumbai Indians	bat
##	248		Sunrisers Hyderabad	bat
##	249		Delhi Capitals Mumbai Indians	bat
##	250 251			bat field
##	251		Sunrisers Hyderabad	
##	253		Rajasthan Royals	field field
##	254		Delhi Capitals Punjab Kings	field
##	255		Kolkata Knight Riders	field
##	256		Rajasthan Royals	field
##	257		Punjab Kings	field
##	258		Sunrisers Hyderabad	bat
##	259		Chennai Super Kings	bat
##	260		Rajasthan Royals	field
##	261		Punjab Kings	field
##	262		Sunrisers Hyderabad	bat
##	263		Mumbai Indians	field
##	264		Chennai Super Kings	field
##	265		Kolkata Knight Riders	bat
##	266		Chennai Super Kings	bat
##	267		Sunrisers Hyderabad	bat
##	268		Rajasthan Royals	bat
##	269		Mumbai Indians	bat
##	270		Kolkata Knight Riders	bat
##	271	Royal	Challengers Bangalore	field
##	272	J	Chennai Super Kings	bat
##	273		Rajasthan Royals	field
##	274	Royal	Challengers Bangalore	field
##	275	•	Kolkata Knight Riders	bat
##	276		Punjab Kings	field
##	277		Chennai Super Kings	bat
##	278		Sunrisers Hyderabad	field
##	279		Rajasthan Royals	field
##	280	Royal	Challengers Bangalore	field
##	281		Sunrisers Hyderabad	bat
##	282		Mumbai Indians	bat
##	283		Rajasthan Royals	field
##	284		Kolkata Knight Riders	field
##	285		Mumbai Indians	bat
##	286		Sunrisers Hyderabad	bat
##	287		Punjab Kings	field
##	288		Rajasthan Royals	bat
##	289		Mumbai Indians	field
##	290		Chennai Super Kings	bat
##	291		Punjab Kings	bat
##	292		Rajasthan Royals	field
##	293	Royal	Challengers Bangalore	field
##	294		Kolkata Knight Riders	field
##	295		Chennai Super Kings	field
##	296	Royal	Challengers Bangalore	field
	297		Delhi Capitals	bat
##	298		Chennai Super Kings	field
			_ 0	

##	299		Rajasthan Royals	field
##		Royal	Challengers Bangalore	field
##	301		Sunrisers Hyderabad	field
##	302		Chennai Super Kings	field
##	303		Kolkata Knight Riders	field
##	304	Royal	Challengers Bangalore	bat
##	305		Sunrisers Hyderabad	bat
##	306		Rajasthan Royals	bat
##	307		Delhi Capitals	field
##	308		Punjab Kings	field
##	309		Kolkata Knight Riders	field
##	310		Delhi Capitals	field
##	311		Chennai Super Kings	bat
##	312		Sunrisers Hyderabad	bat
##	313		Mumbai Indians	bat
##	314		Punjab Kings	field
##	315	Roval	Challengers Bangalore	bat
##	316	100 J W.	Kolkata Knight Riders	field
##	317		Mumbai Indians	field
##	318	Roval	Challengers Bangalore	field
##	319	100 9 41	Sunrisers Hyderabad	field
##	320		Delhi Capitals	field
##	321		Rajasthan Royals	field
##	322		Chennai Super Kings	field
##	323			field
##	324		Kolkata Knight Riders	field
##	325		Punjab Kings Mumbai Indians	field
##	326			field
			Punjab Kings	
##	327		Chennai Super Kings	field
##	328		Chennai Super Kings	field
##	329		Kolkata Knight Riders	field
##	330		Kolkata Knight Riders	field
##	331		Delhi Capitals	field
##	332		Punjab Kings	field
##	333		Chennai Super Kings	bat
##		Royal	Challengers Bangalore	field
	335		Rajasthan Royals	field
##	336		Mumbai Indians	field
##	337		Sunrisers Hyderabad	field
##	338		Mumbai Indians	bat
##	339		Kolkata Knight Riders	field
##	340		Punjab Kings	bat
##	341		Rajasthan Royals	field
	342		Mumbai Indians	bat
	343		Delhi Capitals	bat
	344		Kolkata Knight Riders	field
##	345		Chennai Super Kings	bat
##	346	Royal	Challengers Bangalore	field
##	347		Kolkata Knight Riders	field
##	348		Punjab Kings	field
##	349		Kolkata Knight Riders	field
##	350	Royal	Challengers Bangalore	field
	351		Mumbai Indians	field
##	352	Royal	Challengers Bangalore	field
		-		

##	353		Mumbai Indians	bat
##	354		Chennai Super Kings	bat
##	355	Royal	Challengers Bangalore	field
##	356		Punjab Kings	field
##	357		Kolkata Knight Riders	bat
##	358		Kolkata Knight Riders	field
##	359		Delhi Capitals	field
##	360		Rajasthan Royals	field
##	361	Royal	Challengers Bangalore	field
##	362		Chennai Super Kings	field
##	363		Mumbai Indians	bat
##	364		Delhi Capitals	field
##	365		Chennai Super Kings	bat
##	366		Sunrisers Hyderabad	field
##	367		Delhi Capitals	bat
##	368		Punjab Kings	field
##	369		Rajasthan Royals	field
##	370		Chennai Super Kings	bat
##	371		Punjab Kings	bat
##	372		Sunrisers Hyderabad	bat
##	373	Royal	Challengers Bangalore	bat
##	374		Chennai Super Kings	bat
##	375		Sunrisers Hyderabad	bat
##	376		Chennai Super Kings	bat
##	377	Royal	Challengers Bangalore	field
##	378	·	Kolkata Knight Riders	field
##	379		Sunrisers Hyderabad	bat
##	380		Punjab Kings	bat
##	381		Rajasthan Royals	bat
##	382		Sunrisers Hyderabad	bat
##	383		Mumbai Indians	bat
##	384	Royal	Challengers Bangalore	bat
##	385	·	Chennai Super Kings	field
##	386		Chennai Super Kings	field
##	387		Kolkata Knight Riders	field
##	388		Sunrisers Hyderabad	field
##	389		Mumbai Indians	field
##	390		Delhi Capitals	field
##	391		Sunrisers Hyderabad	bat
##	392		Delhi Capitals	field
##	393		Sunrisers Hyderabad	field
##	394		Kolkata Knight Riders	field
##	395		Mumbai Indians	field
##	396		Mumbai Indians	field
##	397		Sunrisers Hyderabad	field
##			Punjab Kings	field
	399		Mumbai Indians	field
	400		Kolkata Knight Riders	field
	401	Roval	Challengers Bangalore	field
	402	y a x	Kolkata Knight Riders	field
	403		Punjab Kings	field
	404		Delhi Capitals	field
	405		Mumbai Indians	field
	406		Punjab Kings	field
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##	407		Mumbai Indians	field
##	408		Delhi Capitals	field
##	409		Mumbai Indians	bat
##	410		Punjab Kings	bat
##	411		Delhi Capitals	field
##	412	Royal	Challengers Bangalore	field
##	413		Punjab Kings	field
##	414		Delhi Capitals	field
##	415		Sunrisers Hyderabad	field
##	416	Royal	Challengers Bangalore	field
##	417		Kolkata Knight Riders	field
##	418		Sunrisers Hyderabad	bat
##	419	Royal	Challengers Bangalore	field
##	420	Royal	Challengers Bangalore	bat
##	421		Mumbai Indians	field
##	422	Royal	Challengers Bangalore	bat
##	423		Mumbai Indians	field
##	424		Kolkata Knight Riders	field
##	425		Mumbai Indians	field
##	426		Sunrisers Hyderabad	field
##	427		Delhi Capitals	bat
##	428		Delhi Capitals	bat
##	429		Punjab Kings	field
##	430		Sunrisers Hyderabad	bat
##	431		Mumbai Indians	field
##	432		Delhi Capitals	field
##	433	Royal	Challengers Bangalore	field
##	434		Kolkata Knight Riders	field
##	435		Punjab Kings	field
##	436		Punjab Kings	field
##	437		Kolkata Knight Riders	field
##	438	Royal	Challengers Bangalore	bat
##	439		Delhi Capitals	field
##	440	Royal	Challengers Bangalore	field
##	441		Delhi Capitals	field
##	442		Kolkata Knight Riders	field
##	443		Mumbai Indians	bat
##	444		Kolkata Knight Riders	field
##	445		Mumbai Indians	field
##	446		Kolkata Knight Riders	field
##	447	Royal	Challengers Bangalore	bat
##	448		Kolkata Knight Riders	field
##	449		Mumbai Indians	field
##	450		Chennai Super Kings	field
##	451		Punjab Kings	field
##	452		Kolkata Knight Riders	field
##	453		Sunrisers Hyderabad	field
##	454		Chennai Super Kings	field
##	455		Delhi Capitals	field
##	456		Sunrisers Hyderabad	field
##	457	Royal	Challengers Bangalore	field
	458	-	Delhi Capitals	field
##	459		Sunrisers Hyderabad	field
##	460	Royal	Challengers Bangalore	field
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	461		Chennai Super Kings	field
	462		Delhi Capitals	field
		Royal	Challengers Bangalore	field
	464		Kolkata Knight Riders	field
	465		Punjab Kings	bat
##	466		Rajasthan Royals	field
	467		Punjab Kings	field
##		Royal	Challengers Bangalore	field
##	469		Sunrisers Hyderabad	field
##	470		Mumbai Indians	bat
##	471		Delhi Capitals	field
##	472		Mumbai Indians	field
##	473		Chennai Super Kings	field
##	474		Punjab Kings	field
##	475		Kolkata Knight Riders	field
##	476		Mumbai Indians	field
##	477		Sunrisers Hyderabad	bat
##	478		Kolkata Knight Riders	field
##	479		Delhi Capitals	field
##	480		Mumbai Indians	field
##	481		Rajasthan Royals	field
##	482		Kolkata Knight Riders	field
##	483		Mumbai Indians	field
##	484		Chennai Super Kings	field
##	485		Delhi Capitals	bat
##	486		Kolkata Knight Riders	field
##	487		Punjab Kings	field
##	488	Royal	Challengers Bangalore	field
##	489	·		bat
## ##		·	Rajasthan Royals	
	489	·	Rajasthan Royals Kolkata Knight Riders	bat
##	489 490	·	Rajasthan Royals Kolkata Knight Riders Delhi Capitals	bat field
## ## ##	489 490 491	·	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings	bat field bat bat
## ## ## ##	489 490 491 492 493		Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings	bat field bat bat field
## ## ## ##	489 490 491 492 493		Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore	bat field bat bat field field
## ## ## ## ##	489 490 491 492 493 494		Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings	bat field bat bat field field field
## ## ## ## ##	489 490 491 492 493 494 495 496	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals	bat field bat bat field field field field
## ## ## ## ##	489 490 491 492 493 494 495 496	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore	bat field bat bat field field field
## ## ## ## ## ##	489 490 491 492 493 494 495 496 497 498	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders	bat field bat field field field field field field field
## ## ## ## ## ## ##	489 490 491 492 493 494 495 496 497 498 499	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings	bat field bat field field field field field field field field field
## ## ## ## ## ## ##	489 490 491 492 493 494 495 496 497 498 499 500	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad	bat field bat field
## ## ## ## ## ## ## ## ##	489 490 491 492 493 494 495 496 497 498 499 500 501	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings	bat field bat bat field
## ## ## ## ## ## ## ## ## ## ## ## ##	489 490 491 492 493 494 495 496 497 498 499 500 501 502	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals	bat field bat bat field field field field field field field field field fold field fold fold fold fold fold fold fold fo
######################################	489 490 491 492 493 494 495 496 497 498 499 500 501 502 503	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals Sunrisers Hyderabad	bat field bat bat field fold field field field field
######################################	489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals Sunrisers Hyderabad Delhi Capitals	bat field bat bat field field field field field field field field field fold field field field fold fold fold fold fold fold fold fo
######################################	489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals Sunrisers Hyderabad Delhi Capitals Chennai Super Kings	bat field bat field
######################################	489 490 491 492 493 494 495 496 497 498 500 501 502 503 504 505 506	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals Sunrisers Hyderabad Delhi Capitals Chennai Super Kings Chennai Super Kings	bat field bat bat field
#####################	489 490 491 492 493 494 495 496 497 500 501 502 503 504 505 506 507	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals Sunrisers Hyderabad Delhi Capitals Chennai Super Kings Chennai Super Kings Chennai Super Kings Chennai Super Kings	bat field bat bat field bat bat field field field
######################################	489 490 491 492 493 494 495 496 497 498 500 501 502 503 504 505 506 507 508	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals Sunrisers Hyderabad Delhi Capitals Chennai Super Kings Chennai Super Kings Chennai Super Kings Kajasthan Royals Kolkata Knight Riders	bat field bat bat field bat bat bat field field field field field
######################################	489 490 491 492 493 494 495 496 497 498 500 501 502 503 504 505 506 507 508	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals Sunrisers Hyderabad Delhi Capitals Chennai Super Kings Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Chennai Super Kings	bat field bat bat field bat bat field field field field field field field field
##########################	489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals Sunrisers Hyderabad Delhi Capitals Chennai Super Kings Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Chennai Super Kings Chennai Super Kings Chennai Super Kings	bat field bat bat field foat bat bat field
##########################	489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals Sunrisers Hyderabad Delhi Capitals Chennai Super Kings Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Chennai Super Kings Kolkata Knight Riders Chennai Super Kings	bat field bat bat field
##########################	489 490 491 492 493 494 495 496 497 500 501 502 503 504 505 506 507 508 509 510 511 512	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals Sunrisers Hyderabad Delhi Capitals Chennai Super Kings Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Chennai Super Kings Kolkata Knight Riders Chennai Super Kings Kolkata Knight Riders Kolkata Knight Riders Mumbai Indians	bat field bat bat field
###########################	489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511	Royal	Rajasthan Royals Kolkata Knight Riders Delhi Capitals Chennai Super Kings Punjab Kings Challengers Bangalore Chennai Super Kings Rajasthan Royals Challengers Bangalore Kolkata Knight Riders Punjab Kings Sunrisers Hyderabad Chennai Super Kings Rajasthan Royals Sunrisers Hyderabad Delhi Capitals Chennai Super Kings Chennai Super Kings Rajasthan Royals Kolkata Knight Riders Chennai Super Kings Kolkata Knight Riders Chennai Super Kings	bat field bat bat field

##	515		Punjab Kings	field
##		Royal	Challengers Bangalore	field
##	517		Rajasthan Royals	bat
##	518		Punjab Kings	field
##	519		Delhi Capitals	field
##	520	Royal	Challengers Bangalore	field
##	521		Rajasthan Royals	field
##	522		Delhi Capitals	field
##	523		Rajasthan Royals	field
##	524		Chennai Super Kings	field
##	525		Sunrisers Hyderabad	field
##	526		Kolkata Knight Riders	field
##	527		Chennai Super Kings	bat
##	528		Sunrisers Hyderabad	field
##	529		Delhi Capitals	field
##	530		Kolkata Knight Riders	field
##	531		Punjab Kings	field
##	532		Chennai Super Kings	field
##	533		Mumbai Indians	field
##	534		Chennai Super Kings	field
##	535		Delhi Capitals	field
##	536		Rajasthan Royals	field
##	537	Royal	Challengers Bangalore	field
##	538	· ·	Chennai Super Kings	field
##	539		Sunrisers Hyderabad	field
##	540		Mumbai Indians	field
##	541		Rajasthan Royals	field
##	542		Chennai Super Kings	bat
##	543		Mumbai Indians	bat
##	544		Kolkata Knight Riders	field
##			O	
	545		Rajasthan Royals	field
##	545 546		Rajasthan Royals Delhi Capitals	field field
## ##			Delhi Capitals	field
	546 547		Delhi Capitals Sunrisers Hyderabad	field field
##	546 547 548		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings	field field field
## ##	546 547 548 549		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals	field field field field
## ## ## ##	546 547 548		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings	field field field field field
## ## ## ##	546 547 548 549 550 551		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings	field field field field field
## ## ## ## ##	546 547 548 549 550 551 552		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals	field field field field field field
## ## ## ## ##	546 547 548 549 550 551 552 553		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings	field field field field field field field
## ## ## ## ## ##	546 547 548 549 550 551 552 553 554		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals	field field field field field field field field
## ## ## ## ## ## ##	546 547 548 549 550 551 552 553 554 555		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals	field field field field field field field field
## ## ## ## ## ## ##	546 547 548 549 550 551 552 553 554 555 556		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians	field field field field field field field field bat
## ## ## ## ## ## ##	546 547 548 549 550 551 552 553 554 555 556 557		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians Punjab Kings	field field field field field field field bat field field
## ## ## ## ## ## ## ##	546 547 548 549 550 551 552 553 554 555 556 557 558		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians Punjab Kings Delhi Capitals	field foat field field field
## ## ## ## ## ## ## ## ## ## ## ## ##	546 547 548 549 550 551 552 553 554 555 556 557 558 559		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians	field bat field field field
######################################	546 547 548 549 550 551 552 553 554 555 556 557 558 559 560		Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders	field bat field field field
######################################	546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561	Royal	Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Rajasthan Royals	field bat field field field field bat field field
######################################	546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562	Royal	Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Rajasthan Royals Challengers Bangalore	field bat field field field foeld field field field field foeld field field field foet field field field
######################################	546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563	Royal	Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Rajasthan Royals Challengers Bangalore Punjab Kings	field bat field bat field field
## ###################################	546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564	Royal	Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Rajasthan Royals Challengers Bangalore Punjab Kings Mumbai Indians	field bat field bat field field bat field
######################################	546 547 548 549 550 551 552 553 554 555 556 557 558 560 561 562 563 564 565	Royal	Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Rajasthan Royals Challengers Bangalore Punjab Kings Mumbai Indians Chennai Super Kings	field bat field field field field field field bat field bat field bat
######################################	546 547 548 549 550 551 552 553 554 555 556 557 558 560 561 562 563 564 565 566	Royal	Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Rajasthan Royals Challengers Bangalore Punjab Kings Mumbai Indians Chennai Super Kings	field bat field field field field field bat field bat field bat field bat field bat field
######################################	546 547 548 549 550 551 552 553 554 555 556 557 558 560 561 562 563 564 565	Royal	Delhi Capitals Sunrisers Hyderabad Chennai Super Kings Delhi Capitals Chennai Super Kings Punjab Kings Rajasthan Royals Chennai Super Kings Rajasthan Royals Delhi Capitals Mumbai Indians Punjab Kings Delhi Capitals Mumbai Indians Kolkata Knight Riders Rajasthan Royals Challengers Bangalore Punjab Kings Mumbai Indians Chennai Super Kings	field bat field field field field field field bat field bat field bat

	569		Chennai Super Kings	field
##	570		Punjab Kings	field
##	571		Kolkata Knight Riders	bat
	572		Sunrisers Hyderabad	field
	573		Chennai Super Kings	field
	574		Delhi Capitals	field
##	575		Sunrisers Hyderabad	field
##	576		Mumbai Indians	field
##	577		Rajasthan Royals	field
##	578		Kolkata Knight Riders	bat
##	579		Sunrisers Hyderabad	field
##	580		Punjab Kings	field
##	581		Rajasthan Royals	field
##	582		Delhi Capitals	field
##	583		Chennai Super Kings	field
##	584		Sunrisers Hyderabad	bat
##	585		Kolkata Knight Riders	field
##	586		Chennai Super Kings	bat
##	587	Royal	Challengers Bangalore	field
##	588		Mumbai Indians	bat
##	589		Sunrisers Hyderabad	field
##	590		Punjab Kings	bat
##	591		Rajasthan Royals	bat
##	592		Kolkata Knight Riders	field
##	593		Sunrisers Hyderabad	bat
##	594		Mumbai Indians	bat
##	595		Sunrisers Hyderabad	field
##	596	Royal	Challengers Bangalore	field
##	597		Punjab Kings	field
##	598		Mumbai Indians	field
##	599		Rajasthan Royals	bat
##	600		Kolkata Knight Riders	bat
##	601		Delhi Capitals	field
##	602	Royal	Challengers Bangalore	bat
##	603		Kolkata Knight Riders	bat
##	604		Rajasthan Royals	field
##	605		Chennai Super Kings	bat
##	606		Delhi Capitals	bat
##	607	D 7	Rajasthan Royals	field
##		коуат	Challengers Bangalore	bat
##	609		Delhi Capitals	field
##	610		Chennai Super Kings	bat field
	611 612		Sunrisers Hyderabad Mumbai Indians	field
	613			field
	614		Chennai Super Kings	field
			Rajasthan Royals Mumbai Indians	
	615 616			bat field
		Povo 1	Chennai Super Kings Challengers Bangalere	
		noyal	Challengers Bangalore Mumbai Indians	bat bat
	618			bat bat
	619 620		Sunrisers Hyderabad	bat bat
		Povo 1	Delhi Capitals	bat bat
	621	noyal	Challengers Bangalore	bat bat
##	022		Sunrisers Hyderabad	bat

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## 623
                     Delhi Capitals
                                                 bat
## 624
                     Mumbai Indians
                                              field
## 625
                     Delhi Capitals
                                              field
## 626
                Sunrisers Hyderabad
                                              field
## 627
                     Delhi Capitals
                                                 bat
## 628
                     Delhi Capitals
                                                 bat
## [1] 8
## [1] "Chennai Super Kings"
                                        "Delhi Capitals"
       "Kolkata Knight Riders"
                                        "Mumbai Indians"
   [3]
   [5] "Punjab Kings"
                                        "Rajasthan Royals"
  [7] "Royal Challengers Bangalore"
                                        "Sunrisers Hyderabad"
## [1] "Chennai Super Kings"
                                        "Delhi Capitals"
   [3] "Kolkata Knight Riders"
                                        "Mumbai Indians"
   [5] "Punjab Kings"
                                        "Rajasthan Royals"
  [7] "Royal Challengers Bangalore"
                                        "Sunrisers Hyderabad"
## [1] "Chennai Super Kings"
                                        "Delhi Capitals"
   [3] "Kolkata Knight Riders"
                                        "Mumbai Indians"
   [5] "Punjab Kings"
                                        "Rajasthan Royals"
  [7] "Royal Challengers Bangalore"
                                        "Sunrisers Hyderabad"
## [1] "Chennai Super Kings"
                                        "Delhi Capitals"
                                        "Mumbai Indians"
   [3] "Kolkata Knight Riders"
   [5] "Punjab Kings"
                                        "Rajasthan Royals"
   [7] "Royal Challengers Bangalore" "Sunrisers Hyderabad"
##
     [1] "RCB"
                       "Punjab"
                                    "DC"
                                                 "Mumbai"
                                                              "Rajasthan" "CSK"
                       "RCB"
                                                              "RCB"
                                                                           "KKR"
##
     [7] "Punjab"
                                    "CSK"
                                                 "Punjab"
    [13] "DC"
                                    "CSK"
                                                 "Punjab"
                                                              "Mumbai"
##
                       "Rajasthan"
                                                                           "Rajasthan"
                                                              "RCB"
                                                                           "CSK"
##
    [19] "RCB"
                       "Mumbai"
                                    "DC"
                                                 "KKR"
                      "Punjab"
                                    "KKR"
                                                 "Mumbai"
                                                                           "Mumbai"
##
    [25] "Rajasthan"
                                                              "Punjab"
##
    [31] "DC"
                       "Rajasthan"
                                    "KKR"
                                                 "RCB"
                                                              "KKR"
                                                                           "Mumbai"
##
    [37] "CSK"
                       "DC"
                                    "CSK"
                                                 "KKR"
                                                              "Rajasthan"
                                                                           "DC"
##
    [43] "CSK"
                       "CSK"
                                    "CSK"
                                                 "RCB"
                                                              "DC"
                                                                           "RCB"
##
    [49] "Punjab"
                                    "KKR"
                                                 "RCB"
                                                              "RCB"
                       "CSK"
                                                                           "Punjab"
    [55] "KKR"
                       "DC"
                                    "RCB"
                                                              "CSK"
                                                                           "KKR"
##
                                                 "Punjab"
##
    [61] "RCB"
                       "CSK"
                                    "Punjab"
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		"DC"	"Rajasthan"		"RCB"	"Rajasthan"	"Punjab"
	1 3 3 1 1		ita jab tilali	ny a			runjab
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## ## ## ## ## ##	[337] [343] [349] [355] [361] [367] [373] [379] [385]	"Hyd" "DC" "KKR" "RCB" "KKR" "DC" "RCB" "RCB" "RCB"	"Mumbai" "KKR" "CSK" "Hyd" "CSK" "Punjab" "Rajasthan" "CSK"	"CSK" "Mumbai" "DC" "Mumbai" "Hyd" "Punjab" "KKR"	"Mumbai" "RCB" "KKR" "DC" "Mumbai" "CSK" "Mumbai" "Hyd"	"KKR" "Hyd" "Punjab" "RCB" "Punjab" "RCB" "Mumbai"	"Punjab" "Punjab" "Rajasthan" "Hyd" "Hyd" "KKR" "Rajasthan" "Punjab"
## ## ## ## ## ## ##	[337] [343] [349] [355] [361] [367] [373] [379] [385] [391]	"Hyd" "DC" "KKR" "RCB" "KKR" "DC" "RCB" "RCB" "RCB" "KKR"	"Mumbai" "KKR" "CSK" "Hyd" "CSK" "Punjab" "Rajasthan" "CSK" "CSK"	"CSK" "Mumbai" "DC" "Mumbai" "Hyd" "Punjab" "KKR" "DC" "Mumbai"	"Mumbai" "RCB" "KKR" "DC" "Mumbai" "CSK" "Mumbai" "Hyd" "KKR"	"KKR" "Hyd" "Punjab" "RCB" "Punjab" "RCB" "Mumbai" "KCB"	"Punjab" "Punjab" "Rajasthan" "Hyd" "Hyd" "KKR" "Rajasthan" "Punjab" "Mumbai"
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### ### ### ### ### ### ### ### ### ##	[337] [343] [349] [355] [361] [367] [379] [385] [391] [403] [409] [415] [421] [427] [433] [439] [445] [457] [463]	"Hyd" "DC" "KKR" "RCB" "KKR" "DC" "RCB" "RCB" "KKR" "Punjab" "Punjab" "Punjab" "Hyd" "KKR" "Punjab" "Hyd" "KKR" "Punjab" "BCB" "Hyd" "Punjab" "RCB" "Hyd" "Punjab" "RCB"	"Mumbai" "KKR" "CSK" "Hyd" "CSK" "Punjab" "Rajasthan" "CSK" "DC" "Mumbai" "DC" "Hyd" "RCB" "KKR" "DC" "Punjab" "Punjab" "Mumbai" "Punjab" "Mumbai"	"CSK" "Mumbai" "DC" "Hyd" "Punjab" "KKR" "DC" "Mumbai" "KKR" "Hyd" "DC" "KKR" "Hyd" "Punjab" "Hyd" "Runjab" "Hyd" "Runjab" "Hyd" "RCB" "Rajasthan" "Hyd"	"Mumbai" "RCB" "KKR" "DC" "Mumbai" "CSK" "Mumbai" "Hyd" "KKR" "KKR" "RCB" "RCB" "Hyd" "Punjab" "DC" "KKR" "KKR" "KKR" "KKR" "KKR" "KKR" "RKR" "RKR" "RKR" "RKR" "RKR" "RKR" "RKR"	"KKR" "Hyd" "Punjab" "RCB" "Punjab" "RCB" "Mumbai" "RCB" "Mumbai" "RCB" "Mumbai" "Punjab" "KKR" "Mumbai" "KKR" "Mumbai" "KKR" "CSK" "Punjab"	"Punjab" "Punjab" "Rajasthan" "Hyd" "KKR" "Rajasthan" "Punjab" "Mumbai" "KKR" "DC" "Hyd" "DC" "Hyd" "DC" "RCB" "KKR" "CSK" "Mumbai"
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                                    "Mumbai"
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                                                                            "KKR."
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                       "CSK"
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                                                 "CSK"
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                                                                           "DC"
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                                                                            "Mumbai"
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                                                 "KKR"
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                                                 "RCB"
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                       "CSK"
                                    "DC"
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                                                                            "Rajasthan"
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                                                                            "KKR"
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                                                               "CSK"
                                                                            "Punjab"
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                       "Hyd"
                                    "CSK"
                                                 "DC"
                                                                            "Mumbai"
##
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                                                                            "DC"
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                                    "Hyd"
                                                 "Punjab"
                                                               "Rajasthan"
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                                                               "RCB"
                                                                            "Rajasthan"
                       "Rajasthan"
                       "CSK"
                                                 "KKR"
                                                                            "Punjab"
   [589]
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                                    "RCB"
                                                               "CSK"
##
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                       "RCB"
                                    "Punjab"
                                                 "Mumbai"
                                                               "RCB"
                                                                            "Punjab"
   [601]
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                       "CSK"
                                    "Mumbai"
                                                 "Rajasthan"
                                                               "Hyd"
                                                                            "Mumbai"
                                    "DC"
                                                                            "Mumbai"
## [607]
                                                 "Rajasthan"
                                                               "Hyd"
         "Rajasthan"
                       "Punjab"
   [613]
         "CSK"
                       "Raiasthan"
                                    "Hvd"
                                                 "CSK"
                                                               "KKR"
                                                                            "Raiasthan"
   [619] "Punjab"
                       "Rajasthan"
                                                                            "Mumbai"
                                    "CSK"
                                                 "KKR"
                                                               "Punjab"
   [625] "DC"
                       "Hvd"
                                    "Hyd"
                                                 "Mumbai"
##
   # A tibble: 562 x 6
##
      team1
                team2
                                                               toss_winner toss_decision
                          winner
                                   venue
##
      <chr>
                          <chr>
                                   <chr>
                                                                <chr>
                                                                             <chr>
                <chr>
                                   M. A. Chidambaram Stadium RCB
##
    1 RCB
                KKR
                          KKR
                                                                             field
                                   Punjab Cricket Associati~ CSK
    2 Punjab
                CSK
                          CSK
                                                                             bat
##
    3 DC
                Rajasth~
                          DC
                                   Feroz Shah Kotla
                                                               Rajasthan
                                                                             bat
                                   Wankhede Stadium
##
    4 Mumbai
                RCB
                          RCB
                                                               Mumbai
                                                                             bat
                          Rajast~ Sawai Mansingh Stadium
##
    5 Rajasth~ Punjab
                                                               Punjab
                                                                             bat.
                                   M. A. Chidambaram Stadium Mumbai
##
    6 CSK
                Mumbai
                                                                             field
                                   Punjab Cricket Associati~ Mumbai
                          Punjab
##
    7 Punjab
                Mumbai
                                                                             field
                Rajasth~ Rajast~ M. A. Chidambaram Stadium Rajasthan
##
    8 RCB
                                                                             field
##
    9 CSK
                KKR
                          CSK
                                   M. A. Chidambaram Stadium KKR
                                                                             bat
## 10 RCB
                CSK
                          CSK
                                   M. A. Chidambaram Stadium CSK
                                                                             bat.
## # ... with 552 more rows
  # A tibble: 66 x 6
##
      team1
                team2
                                                               toss_winner toss_decision
                          winner
                                   venue
                                   <chr>
##
      <chr>
                <chr>
                          <chr>
                                                               <chr>
                                                                             <chr>
                DC
                                   Punjab Cricket Associati~
                                                               DC
##
    1 Punjab
                          Punjab
                                                                             bat.
##
    2 KKR
                RCB
                          KKR
                                   Eden Gardens
                                                               KKR
                                                                             bat
                Punjab
                                   M. A. Chidambaram Stadium Punjab
##
    3 CSK
                          CSK
                                                                             field
    4 Rajasth~
                          Rajast~ Sawai Mansingh Stadium
                                                               Rajasthan
                                                                             field
                Rajasth~ Rajast~ Eden Gardens
##
    5 KKR
                                                               Rajasthan
                                                                             field
##
    6 Punjab
                Mumbai
                          Mumbai
                                   SuperSport Park
                                                               Punjab
                                                                             bat
                          DC
                                                               DC
##
    7 DC
                Mumbai
                                   SuperSport Park
                                                                             field
                          DC
                                   Sardar Patel Stadium, Mo~ DC
                                                                             field
    8 Rajasth~ DC
                          Rajast~ Sardar Patel Stadium, Mo~ Rajasthan
    9 Rajasth~ KKR
```

10 CSK Rajasth~ CSK M. A. Chidambaram Stadium CSK ## # ... with 56 more rows bat

Algorithms and Fit

F score: In statistical analysis of binary classification, the F-score or F-measure is a measure of a test's accuracy. It is calculated from the precision and recall of the test, where the precision is the number of true positive results divided by the number of all positive results, including those not identified correctly, and the recall is the number of true positive results divided by the number of all samples that should have been identified as positive. Precision is also known as positive predictive value, and recall is also known as sensitivity in diagnostic binary classification.

We are not worried abut negative outcomes and hence going with an F score. F1 score: https://towardsdatascience.com/the-f1-score-bec2bbc38aa6, we will use F1 score. Naive Bayes

Model	CSK	DC	Hyd	KKR	Mumbai	Punjab	Rajasthan	RCB	averageF1Score
Naive	NA	NA	0.5	0.571	NA	0.292	0.667	NA	NA

We can see from the observation that the prediction oes nt satisfy all teams and hence the Naive Bayes algorithm cannot be used in this case

Logistic Regression

```
## Class: CSK Class: DC Class: Hyd Class: KKR Class: Mumbai Class: Punjab
## 1 0.667 0.154 0.364 0.5 0.538 0.462
## Class: Rajasthan Class: RCB averageF1Score
## 1 0.526 0.4 0.451
```

Model	CSK	DC	Hyd	KKR	Mumbai	Punjab	Rajasthan	RCB	averageF1Score
Naive	NA	NA	0.500	0.571	NA	0.292	0.667	NA	NA
LDA	0.667	0.154	0.364	0.500	0.538	0.462	0.526	0.4	0.451

Random Forest

```
## Class: CSK Class: DC Class: Hyd Class: KKR Class: Mumbai Class: Punjab
## 1 0.533 0.444 0.632 0.593 0.429
## Class: Rajasthan Class: RCB averageF1Score
## 1 0.667 0.571 0.534
```

Model	CSK	DC	Hyd	KKR	Mumbai	Punjab	Rajasthan	RCB	averageF1Score
Naive	NA	NA	0.500	0.571	NA	0.292	0.667	NA	NA
LDA	0.667	0.154	0.364	0.500	0.538	0.462	0.526	0.400	0.451
RF	0.533	0.444	0.400	0.632	0.593	0.429	0.667	0.571	0.534

Nearest Neighbour

```
## Class: CSK Class: DC Class: Hyd Class: KKR Class: Mumbai Class: Punjab
## 1 0.5 0.5 0.667 0.556 0.64 0.75

## Class: Rajasthan Class: RCB averageF1Score
## 1 0.667 0.714 0.624
```

Model	CSK	DC	Hyd	KKR	Mumbai	Punjab	Rajasthan	RCB	averageF1Score
Naive	NA	NA	0.500	0.571	NA	0.292	0.667	NA	NA
LDA	0.667	0.154	0.364	0.500	0.538	0.462	0.526	0.400	0.451
RF	0.533	0.444	0.400	0.632	0.593	0.429	0.667	0.571	0.534
KNN	0.500	0.500	0.667	0.556	0.640	0.750	0.667	0.714	0.624

Conclusion:

We have created a pool of players considering different factors from which IPL teams can pick from. There are always biases that can be added to the analysis Eg. What if a top player moved teams , that may change the winner of a game. We also see from the analysis that LDA gives us the best results in terms of predicting a winner. Random forest as it considers multiple trees is a little slow compared to the other algorithms. KNN and Random forest results are nearly similar.

I also want to take this opportunity to thanks all my peers, staff and the excellent teachers at the program.