Project1

Joyce Aldrich

2022-09-24

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

Loading the txt file into R

removing the row of "--"

Create row indicator

data_row_odd <- data[row_odd == 1,] data_row_odd</pre>

```
[1] " Pair | Player Name
                                                                                                                                                                              |Total|Round|Round|Round|Round|Round|Round| "
                                              1 | GARY HUA
                                                                                                                                                                              |6.0 |W 39|W 21|W 18|W 14|W
                                                                                                                                                                                                                                                                                                        7|D 12|D 4|"
                                     2 | DAKSHESH DARURI | 16.0 | W 63|W 58|L 4|W 3 | ADITYA BAJAJ | 16.0 | L 8|W 61|W 25|W 4 | PATRICK H SCHILLING | 15.5 | W 23|D 28|W 2|W 5 | HANSHI ZUO | 15.5 | W 45|W 37|D 12|D 6 | HANSEN SONG | 15.0 | W 34|D 29|L 11|W 7 | GARY DEE SWATHELL | 15.0 | W 57|W 46|W 13|W 8 | EZEKIEL HOUGHTON | 15.0 | W 3|W 32|L 14|L 9 | STEFANO LEE | 15.0 | W 25|L 18|W 59|W 10 | ANVIT RAO | 15.0 | D 16|L 19|W 55|W 11 | CAMERON WILLIAM MC LEMAN | 4.5 | D 38|W 56|W 6|L 12 | KENNETH J TACK | 4.5 | W 42|W 33|D 5|W 13 | TORRANCE HENRY JR | 4.5 | W 36|W 27|L 7|D 14 | BRADLEY SHAW | 4.5 | W 54|W 44|W 8|L 15 | ZACHARY JAMES HOUGHTON | 4.5 | D 19|L 16|W 30|L 16 | MIKE NIKITIN | 4.0 | D 10|W 15|H | W 17 | RONALD GRZEGORCZYK | 4.0 | W 48|W 41|L 26|L 18 | DAVID SUNDEEN | 4.0 | W 48|W 41|L 26|L 18 | DAVID SUNDEEN | 4.0 | W 47|W 9|L 1|W 19 | DIPANKAR ROY | 4.0 | D 15|W 10|W 49|W 23|W 21 | DINH DANG BUI | 4.0 | W 43|L 1|W 47|L 22 | EUGENE L MCCLURE | 4.0 | W 43|L 1|W 47|L 22 | EUGENE L MCCLURE | 4.0 | W 43|L 1|W 47|L 22 | EUGENE L MCCLURE | 4.0 | W 43|L 1|W 47|L 22 | EUGENE L MCCLURE | 4.0 | L 28|L 47|W 43|L 25 | LOREN SCHWIEBERT | 3.5 | L 9|W 53|L 3|W 26 | MAX ZHU | 3.5 | W 49|W 40|W 17|L 27 | GAURAV GIDWANI | 3.5 | W 49|W 40|W 17|L 28 | SOFIA ADINA STANESCU-BELLU | 3.5 | W 24|D 4|W 22|D 29 | CHTEDDZIF OKORIE
         [3] "
                                                                                                                                                                              |6.0 |W
                                                                                                                                                                                                                                                                                   17|W 16|W 20|W
                                                                                                                                                                                                                                                                                                                                                         7|"
##
                                              2 | DAKSHESH DARURI
                                                                                                                                                                                                                    63|W 58|L
                                                                                                                                                                                                                                                                   4|W
## [4] "
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## [5] "
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         [6] "
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## [7] "
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## [8] "
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## [9] "
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## [10] "
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## [11] "
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## [12] "
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## [13] "
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## [14] "
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## [16] "
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## [19] "
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## [20] "
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## [21] "
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## [24] "
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## [25] "
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                                       27 | GAURAV GIDWANI
28 | SOFIA ADINA STANESCU-BELLU
29 | CHIEDOZIE OKORIE
30 | GEORGE AVERY JONES
31 | RISHI SHETTY
32 | JOSHUA PHILIP MATHEWS
33 | JADE GE
34 | MICHAEL JEFFERY THOMAS
35 | JOSHUA DAVID LEE
36 | SIDDHARTH JHA
37 | AMIYATOSH PWNANANDAM
38 | BRIAN LIU
39 | JOEL R HENDON
40 | FOREST ZHANG
41 | KYLE WILLIAM MURPHY
42 | JARED GE
43 | ROBERT GLEN VASEY
44 | JUSTIN D SCHILLING
46 | JACOB ALEXANDER LAVALLEY
41 | JEFEKY YAN
46 | JACOB ALEXANDER LAVALLEY
41 | JACOB ALEXANDER LAVALLEY
42 | JACOB ALEXANDER LAVALLEY
43 | ROBERT GLEN VASEY
44 | JACOB ALEXANDER LAVALLEY
44 | JACOB ALEXANDER LAVALLEY
45 | JACOB ALEXANDER LAVALLEY
46 | JACOB ALEXANDER LAVALLEY
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49 | JACOB ALEXANDER LAVALLEY
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## [28] "
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## [29] "
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## [30] "
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## [31] "
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## [32] "
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## [41] "
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## [42] "
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## [43] "
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## [44] "
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## [45] "
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                                        45 | DEREK YAN
46 | JACOB ALEXANDER LAVALLEY
47 | ERIC WRIGHT
48 | DANIEL KHAIN
49 | MICHAEL J MARTIN
50 | SHIVAM JHA
50 | MICHAEL J MARTIN
50 | SHIVAM JHA
51 | COLUMN STATE
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## [46] "
## [47] "
## [48] "
## [49] "
## [50] "
## [51] "
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## [52] "
             51 | TEJAS AYYAGARI
                                                        12.5
                                                                   27|W 45|L 36|W 57|L 32|D
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##
   [53]
             52 | ETHAN GUO
                                                        12.5
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                                                                                               29 I D
                                                                                                      35 I L
                                                                                                             341"
                                                               ١W
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##
   [54] "
             53 | JOSE C YBARRA
                                                        12.0
                                                               lΗ
                                                                      ΙL
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                                                                                        44 I U
                                                                                                 l W
   [55] "
             54 | LARRY HODGE
                                                                                                             641"
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##
   [56] "
             55 | ALEX KONG
                                                        12.0
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   [57]
             56 | MARISA RICCI
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             57 | MICHAEL LU
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## [59] "
             58 | VIRAJ MOHILE
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   [60]
             59 | SEAN M MC CORMICK
                                                        12.0
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   [61] "
             60 | JULIA SHEN
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  [62] "
             61 | JEZZEL FARKAS
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## [63] "
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             62 | ASHWIN BALAJI
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## [64] "
             63 | THOMAS JOSEPH HOSMER
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## [65] "
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             64 | BEN LI
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#subset even rows
data_row_even <- data[row_odd == 0, ]</pre>
data_row_even
    [1] " Num | USCF ID / Rtg (Pre->Post)
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             ON | 15445895 / R: 1794
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    [3] "
             MI | 14598900 / R: 1553
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             MI | 14959604 / R: 1384
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             MI | 12616049 / R: 1716
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             MI | 14601533 / R: 1655
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             OH | 15055204 / R: 1686
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             MI | 11146376 / R: 1649
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             MI | 15142253 / R: 1641P17->1657P24
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             MI | 12581589 / R: 1712
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   [13] "
             MI | 12681257 / R: 1663
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             MI | 15082995 / R: 1666
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             MI | 10131499 / R: 1610
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                                                                                                        ١W
   [17] "
             MI | 10295068 / R: 1604
                                                                                    lΒ
                                                                                                  ΙB
                                                                                                               1"
                                           ->1613
                                                        |N:3
                                                               lΒ
                                                                      l W
                                                                             ١W
                                                                                                        1
   [18] "
                                                                                                               | "
             MI | 10297702 / R: 1629
                                           ->1610
                                                        |N:3
                                                               l W
                                                                      lΒ
                                                                             l W
                                                                                    lΒ
                                                                                           l W
                                                                                                  lΒ
                                                                                                        l W
##
   [19] "
             MI | 11342094 / R: 1600
                                                                             ΙB
                                                                                    l W
                                                                                           ΙB
                                                                                                  l W
                                                                                                        ΙB
                                                                                                               | "
##
                                           ->1600
                                                        |N:3
                                                               lΒ
                                                                      l W
## [20] "
                                                                      ΙB
                                                                             ١W
                                                                                    lΒ
                                                                                                  l W
                                                                                                        ΙB
             MI | 14862333 / R: 1564
                                           ->1570
                                                        |N:3
                                                               l W
                                                                                           ١W
                                                                                                               |"
## [21]
             MI | 14529060 / R: 1595
                                           ->1569
                                                        |N:4
                                                               ١W
                                                                      lΒ
                                                                             ١W
                                                                                    lΒ
                                                                                           ١W
                                                                                                  lΒ
                                                                                                        ١W
## [22] "
             ON | 15495066 / R: 1563P22->1562
                                                        |N:3
                                                               lΒ
                                                                      l W
                                                                             lΒ
                                                                                    ١W
                                                                                           ١W
                                                                                                  lΒ
                                                                                                        l W
                                                                                                               | "
##
   [23]
             MI | 12405534 / R: 1555
                                           ->1529
                                                        |N:4
                                                               ١W
                                                                      lΒ
                                                                             ١W
                                                                                    lΒ
                                                                                           1
                                                                                                  ١W
                                                                                                        lΒ
                                                                                                               | "
   [24] "
                                                                                                  l W
                                                                                                               | "
##
             ON | 15030142 / R: 1363
                                           ->1371
                                                        1
                                                               lΒ
                                                                      l W
                                                                             lΒ
                                                                                    l W
                                                                                           lΒ
                                                                                                        lΒ
   [25] "
             MI | 13469010 / R: 1229
                                           ->1300
                                                        |N:4
                                                                      ١W
                                                                             lΒ
                                                                                    lΒ
                                                                                           ١W
                                                                                                 ١W
                                                                                                        lΒ
                                                                                                               | "
##
                                                               lΒ
   [26] "
                                                                             lΒ
                                                                                                  ١W
                                                                                                               | "
##
             MI | 12486656 / R: 1745
                                           ->1681
                                                        IN:4
                                                               lΒ
                                                                      ١W
                                                                                    ١W
                                                                                           lΒ
                                                                                                        lΒ
   [27]
             ON | 15131520 / R: 1579
                                           ->1564
                                                        IN:4
                                                               lΒ
                                                                      ١w
                                                                             lΒ
                                                                                    ١w
                                                                                           lΒ
                                                                                                  ١w
                                                                                                        ١W
                                                                                                               1"
##
  [28] "
             MI | 14476567 / R: 1552
                                           ->1539
                                                        |N:4
                                                               ١W
                                                                      lΒ
                                                                             ١W
                                                                                    lΒ
                                                                                           ١W
                                                                                                  lΒ
                                                                                                        1
                                                                                                               | "
## [29] "
             MI | 14882954 / R: 1507
                                           ->1513
                                                        |N:3
                                                                      ١W
                                                                             lΒ
                                                                                    ١W
                                                                                           lΒ
                                                                                                  |B
                                                                                                        ١W
                                                                                                               | "
                                                               ١W
   [30] "
             MI | 15323285 / R: 1602P6 ->1508P12
                                                        |N:4
                                                               lΒ
                                                                      ١W
                                                                             ΙB
                                                                                    | W
                                                                                           |W
                                                                                                  |B
                                                                                                        1
                                                                                                               | "
##
                                                                                                               | "
  [31] "
             ON | 12577178 / R: 1522
                                           ->1444
                                                        1
                                                               ١W
                                                                      lΒ
                                                                             lΒ
                                                                                    |W
                                                                                           ١W
                                                                                                  ΙB
                                                                                                        ΙB
##
   [32] "
             MI | 15131618 / R: 1494
                                           ->1444
                                                                             lΒ
                                                                                    ١W
                                                                                                               | "
                                                        1
                                                               lΒ
                                                                      ١W
                                                                                           lΒ
                                                                                                  ١W
                                                                                                        lΒ
   [33] "
                                                                                                               1"
##
             ON | 14073750 / R: 1441
                                           ->1433
                                                        |N:4
                                                               l W
                                                                      lΒ
                                                                             l W
                                                                                    lΒ
                                                                                           ١W
                                                                                                 lΒ
                                                                                                        l W
##
   [34]
             MI | 14691842 / R: 1449
                                           ->1421
                                                        1
                                                               lΒ
                                                                      l W
                                                                             lΒ
                                                                                    ١W
                                                                                           lΒ
                                                                                                  ١W
                                                                                                        lΒ
                                                                                                               | "
## [35] "
             MI | 15051807 / R: 1399
                                           ->1400
                                                               lΒ
                                                                      ١W
                                                                             lΒ
                                                                                    lΒ
                                                                                           l W
                                                                                                  lΒ
                                                                                                        ١W
                                                                                                               | "
                                                        1
```

```
| "
##
   [36] "
              MI | 14601397 / R: 1438
                                              ->1392
                                                                  l W
                                                                          ١W
                                                                                 lΒ
                                                                                        l W
                                                                                               lΒ
                                                                                                       lΒ
                                                                                                              | W
   [37]
                                                                          lΒ
                                                                                 ١w
                                                                                        lΒ
                                                                                                       ١w
                                                                                                              lΒ
                                                                                                                     | "
##
              MI | 14773163 / R: 1355
                                              ->1367
                                                           IN:4
                                                                  ١W
   [38]
              MI | 15489571 / R:
                                      980P12->1077P17
                                                           1
                                                                  ı
                                                                          lΒ
                                                                                 ١W
                                                                                        l W
                                                                                                       lΒ
                                                                                                              | W
                                                                                                                     | "
                                                                                                                     | "
   [39]
                    15108523 / R: 1423
                                                                                 | W
                                                                                        | W
                                                                                                       |B
                                                                                                              |B
##
              MI |
                                              ->1439
                                                           |N:4
                                                                  l W
                                                                          |B
                                                                                               1
##
   [40]
                    12923035 / R: 1436P23->1413
                                                           |N:4
                                                                  ΙB
                                                                          ١W
                                                                                 lΒ
                                                                                        | W
                                                                                               ΙB
                                                                                                       | W
                                                                                                              | W
                                                                                                                     | "
   [41]
                                                                          |B
                                                                                                       | W
                                                                                                              | W
                                                                                                                     | "
              MI | 14892710 / R: 1348
                                              ->1346
                                                                  lΒ
                                                                                 | W
                                                                                        l W
                                                                                               ΙB
##
                                                                                                                     | "
## [42]
              MI | 15761443 / R: 1403P5 ->1341P9
                                                                  lΒ
                                                                          ١W
                                                                                 lΒ
                                                                                        ١W
                                                                                               1
                                                                                                       1
                                                                                                              ## [43]
              MΤ
                    14462326 / R: 1332
                                              ->1256
                                                                  lΒ
                                                                          | W
                                                                                 |B
                                                                                        |B
                                                                                               l W
                                                                                                       l W
                                                                                                              lΒ
                                                                                                                     | "
##
   [44]
              MI | 14101068 / R: 1283
                                              ->1244
                                                                  I W
                                                                          lΒ
                                                                                 ١W
                                                                                        ١W
                                                                                               lΒ
                                                                                                       lΒ
                                                                                                              I W
                                                                          ١W
                                                                                                              l W
##
   [45]
              MI | 15323504 / R: 1199
                                             ->1199
                                                                  ı
                                                                                 lΒ
                                                                                        ΙB
                                                                                               | W
                                                                                                       lΒ
##
   [46]
              MI | 15372807 / R: 1242
                                              ->1191
                                                                  l W
                                                                          lΒ
                                                                                 l W
                                                                                        lΒ
                                                                                               ١W
                                                                                                       lΒ
                                                                                                              l W
                                                                                                                     |"
                                                                                                                     |"
   [47]
                                                                          ١W
                                                                                 ΙB
                                                                                        l W
                                                                                               |B
                                                                                                       | W
                                                                                                              | W
##
                    15490981 / R:
                                      377P3 ->1076P10
                                                                  ΙB
                                                                                                                     | "
##
   [48]
              MI | 12533115 / R: 1362
                                              ->1341
                                                                  ١W
                                                                          lΒ
                                                                                 ١W
                                                                                        lΒ
                                                                                               ١w
                                                                                                       lΒ
                                                                                                              ١W
                                                                                                                     | "
##
   [49]
              MI | 14369165 / R: 1382
                                              ->1335
                                                                  lΒ
                                                                          ١W
                                                                                        lΒ
                                                                                                       l W
                                                                                                              lΒ
   [50]
              MI | 12531685 / R: 1291P12->1259P17
                                                                  l W
                                                                                 lΒ
                                                                                        l W
                                                                                               ΙB
                                                                                                                     | "
##
                                                                          l W
                                                                                                       Τ
                                                                                                              Τ
##
   [51]
              ΜI
                    14773178 / R: 1056
                                              ->1111
                                                                  l W
                                                                          lΒ
                                                                                 l W
                                                                                        lΒ
                                                                                                       lΒ
                                                                                                              l W
                                                                                               Ι
   [52]
                                                                  lΒ
                                                                          ١W
                                                                                 lΒ
                                                                                        l W
                                                                                               ΙB
                                                                                                       l W
                                                                                                              l W
##
              MI | 15205474 / R: 1011
                                             ->1097
   [53]
              MI | 14918803 / R:
                                             ->1092
                                                                  lΒ
                                                                          l W
                                                                                 lΒ
                                                                                        l W
                                                                                               lΒ
                                                                                                       l W
                                                                                                              ΙB
                                                                                                                     |"
##
                                                           |N:4
              MI | 12578849 / R: 1393
   [54]
                                                                                                                     | "
                                             ->1359
                                                                          lΒ
                                                                                        ١W
                                                                                                       ١W
                                                                                                              ##
                                                                  ı
                                                                                 1
                                                                                               Т
##
   [55]
              MI | 12836773 / R: 1270
                                             ->1200
                                                                  lΒ
                                                                          lΒ
                                                                                 ١W
                                                                                        Ι
                                                                                               ١W
                                                                                                       lΒ
                                                                                                              ١W
                                                                                                                     | "
##
   [56]
              MI | 15412571 / R: 1186
                                             ->1163
                                                                  I W
                                                                          lΒ
                                                                                 ١W
                                                                                        lΒ
                                                                                               1
                                                                                                       ١W
                                                                                                              lΒ
                                                                                                                     | "
   [57]
                                                                          |B
                                                                                 | W
                                                                                                       |B
                                                                                                              | W
                                                                                                                     | "
##
              MI | 14679887 / R: 1153
                                              ->1140
                                                           1
                                                                  ı
                                                                                        l W
                                                                                               1
## [58]
                  | 15113330 / R: 1092
                                                                                                                     | "
                                              ->1079
                                                                  lΒ
                                                                          | W
                                                                                 | W
                                                                                        |B
                                                                                               | W
                                                                                                       ΙB
                                                                                                              MΙ
                                                                                               ١W
                                                                                                              lΒ
                                                                                                                     | "
##
   Г591
              MI | 14700365 / R:
                                      917
                                              -> 941
                                                                  ١W
                                                                          lΒ
                                                                                 ١W
                                                                                        lΒ
                                                                                                       1
                                                                                                                     | "
##
   [60]
              MI | 12841036 / R:
                                      853
                                              -> 878
                                                                  ١W
                                                                          lΒ
                                                                                        |B
                                                                                               | W
                                                                                                       l W
                                                                                                              |B
##
   [61]
              MI | 14579262 / R:
                                      967
                                              -> 984
                                                                  ١W
                                                                          lΒ
                                                                                 lΒ
                                                                                        ١W
                                                                                               lΒ
                                                                                                       Ι
                                                                                                              Ι
                                                                                                                     | "
   [62]
              ON | 15771592 / R:
                                      955P11-> 979P18
                                                                  ΙB
                                                                          ١W
                                                                                 ΙB
                                                                                        l W
                                                                                               |B
                                                                                                       | W
                                                                                                              ΙB
                                                                                                                     | "
##
                                                                                                                     | "
##
   [63]
              MI | 15219542 / R: 1530
                                             ->1535
                                                                  lΒ
                                                                          Т
                                                                                                       1
                                                                                                              1"
## [64]
                                                                  | W
                                                                                 l W
                                                                                        ΙB
                                                                                                       1
                                                                                                              MI | 15057092 / R: 1175
                                              ->1125
                                                                          |B
                                                                                               ΙB
## [65] "
                                                                                                                     |"
              MI | 15006561 / R: 1163
                                              ->1112
                                                                  lΒ
                                                                          l W
                                                                                 l W
                                                                                        lΒ
                                                                                               ١W
                                                                                                       lΒ
                                                                                                              lΒ
```

#creating a new data frame to store tournament information

Call `lifecycle::last_lifecycle_warnings()` to see where this warning was generated.

add a new variable by concating 2 varible into 1

```
library(stringr)
Info_2<- mutate ( Info, Tournamentinfo =str_c(Info$Info_1, " ", Info$Info_2))
#removing the header from original txt
Info_2<- Info_2 [-c(1), ]
##checking each str length
str_length(Info_2$Info_1)</pre>
```

```
str_length(Info_2$Info_2)
store a sample value which to find a location in the string
text<-c(" 1 | GARY HUA
                             |6.0 |W 39|W 21|W 18|W 14|W 7|D 12|D
Finding the location in the string
str_locate(text, pattern = " 1 ")
##
   start end
## [1,] 1 6
str_locate(text, pattern = "GARY HUA
##
    start end
## [1,]
       9 40
str_locate(text, pattern = "6.0 ")
    start end
## [1,]
      42 46
str_locate(text, pattern = "39")
   start end
## [1,] 51 52
str_locate(text, pattern = "21")
## start end
## [1,]
      57 58
str_locate(text, pattern = "18")
##
   start end
## [1,] 63 64
str_locate(text, pattern = "14")
##
    start end
## [1,] 69 70
str_locate(text, pattern = " 7")
##
    start end
## [1,] 74 76
```

str_locate(text, pattern = "12")

start end

81 82

[1,]

```
str_locate(text, pattern = " 4")

## start end
## [1,] 86 88

str_locate(text, pattern = "ON")

## start end
## [1,] 94 95

str_locate(text, pattern = "1794")

## start end
## [1,] 113 116
```

store values based on their location

```
Number <- substr(Info_2$Tournamentinfo,1,6)
Name <- substr(Info_2$Tournamentinfo,9,40)
Total_Points<- substr(Info_2$Tournamentinfo,42,46)
R1 <- substr(Info_2$Tournamentinfo,51,52)
R2 <- substr(Info_2$Tournamentinfo,57,58)
R3 <- substr(Info_2$Tournamentinfo,63,64)
R4 <- substr(Info_2$Tournamentinfo,69,70)
R5 <- substr(Info_2$Tournamentinfo,75,76)
R6 <- substr(Info_2$Tournamentinfo,81,82)
R7 <- substr(Info_2$Tournamentinfo,87,88)
state <- substr(Info_2$Tournamentinfo,94,95)
Pre_rating <- substr(Info_2$Tournamentinfo,113,116)
```

#creating a data.frame to store tournament info

Creating Reference table to store players' ID and pre_rating

```
R2_ID=as.numeric(R2),
                             R3_ID=as.numeric(R3),
                             R4_ID=as.numeric(R4),
                             R5_ID=as.numeric(R5),
                             R6_ID=as.numeric(R6),
                             R7_ID=as.numeric(R7)
)
#insert R1's component's pre_rating
library(dplyr)
Temp1<-left_join(R_Table,Ref_Table,by =c("R1_ID"="PlayID"))</pre>
colnames(Temp1)[9] <- "Pre_R_R1"</pre>
#insert R2's component's pre_rating
library(dplyr)
Temp2<-left_join(Temp1, Ref_Table, by =c("R2_ID"="PlayID"))</pre>
colnames(Temp2)[10] <- "Pre_R_R2"</pre>
#insert R3's component's pre_rating
library(dplyr)
Temp3<-left_join(Temp2, Ref_Table, by =c("R3_ID"="PlayID"))</pre>
colnames(Temp3)[11] <- "Pre_R_R3"</pre>
#insert R4's component's pre_rating
library(dplyr)
Temp4<-left_join(Temp3,Ref_Table,by =c("R4_ID"="PlayID"))</pre>
colnames(Temp4)[12] <- "Pre_R_R4"</pre>
#insert R5's component's pre rating
library(dplyr)
Temp5<-left_join(Temp4,Ref_Table,by =c("R5_ID"="PlayID"))</pre>
colnames(Temp5)[13] <- "Pre_R_R5"</pre>
#insert R6's component's pre_rating
library(dplyr)
Temp6<-left_join(Temp5, Ref_Table, by =c("R6_ID"="PlayID"))</pre>
colnames(Temp6)[14] <- "Pre_R_R6"</pre>
#insert R7's component's pre_rating
```

```
library(dplyr)
Temp7<-left_join(Temp6,Ref_Table,by =c("R7_ID"="PlayID"))
colnames(Temp7)[15] <- "Pre_R_R7"</pre>
```

creating a new data.frame for computing the pre_average rating

```
Pre_Rating_Cal <- subset(Temp7, select= -c(2:8))</pre>
```

counting NA in the each row

```
Pre_Rating_Cal$CountNa <- rowSums(is.na(Pre_Rating_Cal))</pre>
```

replacing NA into 0

```
Pre_Rating_Cal[is.na(Pre_Rating_Cal)] =0
```

 $adding \ new \ column \ for \ Average_Pre_Rating_Opponents \ (=Sum_Pre_Rating/\#ofRoundPlayors)$

```
Pre_Rating_Cal_Final <-mutate(Pre_Rating_Cal, Average_Pre_Rating_Opponents = (Pre_R_R1+Pre_R_R2+Pre_R_R3)</pre>
```

creating a final data.frame to store the project1 values

##export to csv file

```
write.csv(Project1, file='/Users/joycealdrich/Documents/SPS Data Science/Data 607/Project_1/DATA607_Pro
```

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.