# TOY\_1

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#### **DATA**

```
players_L <- paste0("LP",1:10)</pre>
players_A <- paste0("AP",1:10)</pre>
toy <- data.frame(</pre>
  "id_play" = 1:15,
  "season" = c(rep("S2017", 15)),
  "game" = c(rep("G1",10), rep("G2",5)),
  "points_L" = c(0,0,0,2,2,2,5,5,7,7,7,7,10,10,12),
  "points_A" = c(0,2,2,2,4,4,7,7,9,9,10,10,12,12,12),
  "LP1" = c(rep(players_L[1],4),rep(players_L[6],5),rep(players_L[1],6)),
  "LP2" = players_L[2],
  "LP3" = c(rep(players_L[3],7), rep(players_L[7],2),rep(players_L[3],6)),
  "AP1" = players_A[1],
  "AP2" = c(rep(players_A[2],8),players_A[7], rep(players_A[2],6)),
  "AP3" = players_A[3]
toy_backup <- toy</pre>
toy$PM <- toy$points_L-toy$points_A</pre>
knitr::kable(toy)
```

id_play	season	game	points_L	points_A	LP1	LP2	LP3	AP1	AP2	AP3	PM
1	S2017	G1	0	0	LP1	LP2	LP3	AP1	AP2	AP3	0
2	S2017	G1	0	2	LP1	LP2	LP3	AP1	AP2	AP3	-2
3	S2017	G1	0	2	LP1	LP2	LP3	AP1	AP2	AP3	-2
4	S2017	G1	2	2	LP1	LP2	LP3	AP1	AP2	AP3	0
5	S2017	G1	2	4	LP6	LP2	LP3	AP1	AP2	AP3	-2
6	S2017	G1	2	4	LP6	LP2	LP3	AP1	AP2	AP3	-2
7	S2017	G1	5	7	LP6	LP2	LP3	AP1	AP2	AP3	-2
8	S2017	G1	5	7	LP6	LP2	LP7	AP1	AP2	AP3	-2
9	S2017	G1	7	9	LP6	LP2	LP7	AP1	AP7	AP3	-2
10	S2017	G1	7	9	LP1	LP2	LP3	AP1	AP2	AP3	-2
11	S2017	G2	7	10	LP1	LP2	LP3	AP1	AP2	AP3	-3
12	S2017	G2	7	10	LP1	LP2	LP3	AP1	AP2	AP3	-3
13	S2017	G2	10	12	LP1	LP2	LP3	AP1	AP2	AP3	-2
14	S2017	G2	10	12	LP1	LP2	LP3	AP1	AP2	AP3	-2

id_play	season	game	points_L	points_A	LP1	LP2	LP3	AP1	AP2	AP3	PM
15	S2017	G2	12	12	LP1	LP2	LP3	AP1	AP2	AP3	0

#### ORDENAR DF

season	game	id_play	points_L	points_A	PM	LP1	LP2	LP3	AP1	AP2	AP3
S2017	G1	1	0	0	0	LP3	LP2	LP1	AP3	AP2	AP1
S2017	G1	2	0	2	-2	LP3	LP2	LP1	AP3	AP2	AP1
S2017	G1	3	0	2	-2	LP3	LP2	LP1	AP3	AP2	AP1
S2017	G1	4	2	2	0	LP3	LP2	LP1	AP3	AP2	AP1
S2017	G1	5	2	4	-2	LP6	LP3	LP2	AP3	AP2	AP1
S2017	G1	6	2	4	-2	LP6	LP3	LP2	AP3	AP2	AP1
S2017	G1	7	5	7	-2	LP6	LP3	LP2	AP3	AP2	AP1
S2017	G1	8	5	7	-2	LP7	LP6	LP2	AP3	AP2	AP1
S2017	G1	9	7	9	-2	LP7	LP6	LP2	AP7	AP3	AP1
S2017	G1	10	7	9	-2	LP3	LP2	LP1	AP3	AP2	AP1
S2017	G2	11	7	10	-3	LP3	LP2	LP1	AP3	AP2	AP1
S2017	G2	12	7	10	-3	LP3	LP2	LP1	AP3	AP2	AP1
S2017	G2	13	10	12	-2	LP3	LP2	LP1	AP3	AP2	AP1
S2017	G2	14	10	12	-2	LP3	LP2	LP1	AP3	AP2	AP1
S2017	G2	15	12	12	0	LP3	LP2	LP1	AP3	AP2	AP1

## MERGE Jugadores y Temporada+Game

```
library(tidyr)
df_order_toy <- df_order_toy %>%
  unite("Merged_Players", LP1:AP3, remove = TRUE) %>%
  unite("Merged_SG", c("season", "game"))
knitr::kable(df_order_toy)
```

$\overline{\mathrm{Merged\_SG}}$	id_play	points_L	points_A	PM	Merged_Players
S2017_G1	1	0	0	0	LP3_LP2_LP1_AP3_AP2_AP1
$S2017\_G1$	2	0	2	-2	LP3_LP2_LP1_AP3_AP2_AP1
$S2017\_G1$	3	0	2	-2	LP3_LP2_LP1_AP3_AP2_AP1
$S2017\_G1$	4	2	2	0	LP3_LP2_LP1_AP3_AP2_AP1
$S2017\_G1$	5	2	4	-2	LP6_LP3_LP2_AP3_AP2_AP1
$S2017\_G1$	6	2	4	-2	LP6_LP3_LP2_AP3_AP2_AP1
$S2017\_G1$	7	5	7	-2	LP6_LP3_LP2_AP3_AP2_AP1
$S2017\_G1$	8	5	7	-2	LP7_LP6_LP2_AP3_AP2_AP1
$S2017\_G1$	9	7	9	-2	LP7_LP6_LP2_AP7_AP3_AP1
$S2017\_G1$	10	7	9	-2	LP3_LP2_LP1_AP3_AP2_AP1
$S2017\_G2$	11	7	10	-3	LP3_LP2_LP1_AP3_AP2_AP1
$S2017\_G2$	12	7	10	-3	LP3_LP2_LP1_AP3_AP2_AP1
$S2017\_G2$	13	10	12	-2	LP3_LP2_LP1_AP3_AP2_AP1
$S2017\_G2$	14	10	12	-2	LP3_LP2_LP1_AP3_AP2_AP1
$S2017\_G2$	15	12	12	0	LP3_LP2_LP1_AP3_AP2_AP1

# UNIQUE quintetos

##		Merged_SG	id_play	points_L	points_A	${\tt PM}$	Merged_Players TF_Cambios	
##	1	S2017_G1	1	0	0	0	LP3_LP2_LP1_AP3_AP2_AP1 <na></na>	
##	2	S2017_G1	2	0	2	-2	LP3_LP2_LP1_AP3_AP2_AP1 NC	
##	3	S2017_G1	3	0	2	-2	LP3_LP2_LP1_AP3_AP2_AP1 NC	
##	4	S2017_G1	4	2	2	0	LP3_LP2_LP1_AP3_AP2_AP1 NC	
##	5	S2017_G1	5	2	4	-2	LP6_LP3_LP2_AP3_AP2_AP1 C	
##	6	S2017_G1	6	2	4	-2	LP6_LP3_LP2_AP3_AP2_AP1 NC	
##	7	S2017_G1	7	5	7	-2	LP6_LP3_LP2_AP3_AP2_AP1 NC	
##	8	S2017_G1	8	5	7	-2	LP7_LP6_LP2_AP3_AP2_AP1 C	
##	9	S2017_G1	9	7	9	-2	LP7_LP6_LP2_AP7_AP3_AP1 C	
##	10	S2017_G1	10	7	9	-2	LP3_LP2_LP1_AP3_AP2_AP1 C	
##	11	S2017_G2	11	7	10	-3	LP3_LP2_LP1_AP3_AP2_AP1 C	
##	12	S2017_G2	12	7	10	-3	LP3_LP2_LP1_AP3_AP2_AP1 NC	
##	13	S2017_G2	13	10	12	-2	LP3_LP2_LP1_AP3_AP2_AP1 NC	
##	14	S2017_G2	14	10	12	-2	LP3_LP2_LP1_AP3_AP2_AP1 NC	
##	15	S2017_G2	15	12	12	0	LP3_LP2_LP1_AP3_AP2_AP1 NC	

Hasta aquí tenemos detectados cuando hay cambios

#### **STINTS**

```
df_order_toy
##
      Merged_SG id_play points_L points_A PM
                                                      Merged_Players TF_Cambios
## 1
       S2017 G1
                               0
                                       O O LP3 LP2 LP1 AP3 AP2 AP1
                                                                           <NA>
                      1
## 2
       S2017 G1
                      2
                               0
                                       2 -2 LP3 LP2 LP1 AP3 AP2 AP1
                                                                            NC
## 3
       S2017 G1
                      3
                               0
                                       2 -2 LP3_LP2_LP1_AP3_AP2_AP1
                                                                            NC
       S2017 G1
                      4
                               2
                                       NC
## 4
                     5
                               2
## 5
       S2017_G1
                                       4 -2 LP6_LP3_LP2_AP3_AP2_AP1
                                                                             C
## 6
       S2017_G1
                      6
                               2
                                        4 -2 LP6_LP3_LP2_AP3_AP2_AP1
                                                                            NC
                     7
## 7
       S2017_G1
                               5
                                       7 -2 LP6_LP3_LP2_AP3_AP2_AP1
                                                                            NC
       S2017_G1
                     8
                              5
                                                                             C
## 8
                                       7 -2 LP7_LP6_LP2_AP3_AP2_AP1
                     9
                              7
                                                                             C
## 9
       S2017_G1
                                       9 -2 LP7_LP6_LP2_AP7_AP3_AP1
                              7
                                                                             С
## 10 S2017_G1
                     10
                                       9 -2 LP3_LP2_LP1_AP3_AP2_AP1
                              7
                                                                             С
      S2017_G2
                                      10 -3 LP3_LP2_LP1_AP3_AP2_AP1
## 11
                     11
## 12 S2017_G2
                     12
                              7
                                      10 -3 LP3_LP2_LP1_AP3_AP2_AP1
                                                                            NC
      S2017 G2
## 13
                     13
                              10
                                      12 -2 LP3 LP2 LP1 AP3 AP2 AP1
                                                                            NC
## 14 S2017_G2
                     14
                                      12 -2 LP3_LP2_LP1_AP3_AP2_AP1
                                                                            NC
                              10
## 15 S2017 G2
                     15
                              12
                                      12 O LP3 LP2 LP1 AP3 AP2 AP1
                                                                            NC
##
      stint
## 1
       <NA>
## 2
       <NA>
## 3
       <NA>
## 4
        NC
## 5
       <NA>
       <NA>
## 6
## 7
         NC
## 8
          C
## 9
          C
## 10
          C
## 11
       <NA>
## 12
       <NA>
## 13
       <NA>
## 14
       <NA>
## 15 <NA>
library(tidyr)
STINTS <- df_order_toy %>% drop_na(stint)
STINTS <- rbind(STINTS, last_row)</pre>
STINTS
      Merged_SG id_play points_L points_A PM
                                                      Merged Players TF Cambios
## 1
      S2017_G1
                      4
                              2
                                       2 0 LP3_LP2_LP1_AP3_AP2_AP1
                                                                            NC
                      7
## 2
       S2017 G1
                               5
                                       7 -2 LP6 LP3 LP2 AP3 AP2 AP1
                                                                            NC
       S2017 G1
                                                                             С
## 3
                     8
                              5
                                       7 -2 LP7 LP6 LP2 AP3 AP2 AP1
## 4
       S2017 G1
                     9
                              7
                                       9 -2 LP7 LP6 LP2 AP7 AP3 AP1
                                                                             C
## 5
       S2017 G1
                     10
                              7
                                       9 -2 LP3_LP2_LP1_AP3_AP2_AP1
                                                                             C
                                      ## 15 S2017 G2
                     15
                              12
                                                                            NC
      stint
##
## 1
         NC
## 2
         NC
## 3
          C
## 4
          C
## 5
          С
## 15
       <NA>
```

dim(STINTS)

## [1] 6 8