

TEAMS FOR THE 2019 NCBS ULTIMATE TOURNAMENT

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```
library(dplyr)
```

```
## read in the csv
```

```
play <- read.csv("IInd-2019-ultimate-ncbs-seeds-working.csv")
```

```
## subset data for use
```

```
playsub <- play %>% select(name, gender, total)
```

```
playsub
```

##		name	gender	total
## 1		Aditya Iyer	male	0
## 2		Anurag	male	0
## 3		ARKA PRROVO DAS	male	0
## 4		ARYA NAIR	female	0
## 5		Deepthi	female	0
## 6		Komal Gupta	female	0
## 7		Rohini	female	0
## 8		Shivansh Singhal	male	0
## 9		thejus	male	0
## 10		Varsha	female	0
## 11		Alok	male	9
## 12		rachna	female	9
## 13		Pankaj Kumar Chauhan	male	10
## 14		Sankarshan talluri	male	10
## 15		Maitri	female	11
## 16		Simran Virdi	female	12
## 17		Suhas	male	12
## 18		Rasika	female	13
## 19		Umesh Mohan	male	13
## 20		mahesh	male	14
## 21		Sachin Rawat	male	14
## 22		Shubhra	female	14
## 23		sid	male	14
## 24		Rohit Nandakumar	male	15
## 25		Abin Ghosh	male	17
## 26		Pavan	male	17
## 27		Sarang Mishrikotkar	male	17
## 28		chintan sheth	male	18
## 29		nishant	male	18
## 30		Chaitanya	male	19
## 31		Mayukh Dey	male	20
## 32		Joshua	male	21

NOW WE SPLIT THE MALES AND FEMALES AS WELL AS ASSIGN EACH PLAYER A CATEGORY

```
## group males and females separately
males <- playsub %>% filter(gender=="male")
females <- playsub %>% filter(gender=="female")

## type the players differently
males <- males %>%
  mutate(type = lapply(total, function(x) {
    if (x %in% c(0:9)) {
      'wildcards'
    } else if (x %in% c(10:16)) {
      'game-changers'
    } else if (x %in% c(16:25)) {
      'play-makers'
    }
  }))

males
```

##		name	gender	total	type
## 1		Aditya Iyer	male	0	wildcards
## 2		Anurag	male	0	wildcards
## 3		ARKA PRROVO DAS	male	0	wildcards
## 4		Shivansh Singhal	male	0	wildcards
## 5		thejus	male	0	wildcards
## 6		Alok	male	9	wildcards
## 7		Pankaj Kumar Chauhan	male	10	game-changers
## 8		Sankarshan talluri	male	10	game-changers
## 9		Suhas	male	12	game-changers
## 10		Umesh Mohan	male	13	game-changers
## 11		mahesh	male	14	game-changers
## 12		Sachin Rawat	male	14	game-changers
## 13		sid	male	14	game-changers
## 14		Rohit Nandakumar	male	15	game-changers
## 15		Abin Ghosh	male	17	play-makers
## 16		Pavan	male	17	play-makers
## 17		Sarang Mishrikotkar	male	17	play-makers
## 18		chintan sheth	male	18	play-makers
## 19		nishant	male	18	play-makers
## 20		Chaitanya	male	19	play-makers
## 21		Mayukh Dey	male	20	play-makers
## 22		Joshua	male	21	play-makers

```
## repeat for females
females <- females %>%
  mutate(type = lapply(total, function(x) {
    if (x %in% c(0:9)) {
      'wildcards'
    } else if (x %in% c(10:16)) {
      'game-changers'
    } else if (x %in% c(16:25)) {
      'play-makers'
    }
  }))

females
```

```
females
```

```
##           name gender total           type
## 1     ARYA NAIR female      0     wildcards
## 2     Deepthi female      0     wildcards
## 3   Komal Gupta female      0     wildcards
## 4     Rohini female      0     wildcards
## 5     Varsha female      0     wildcards
## 6     rachna female      9     wildcards
## 7     Maitri female     11 game-changers
## 8   Simran Virdi female     12 game-changers
## 9     Rasika female     13 game-changers
## 10    Shubhra female     14 game-changers
```

Note

```
## create dataframes for the 3 player types
df1 <- subset(males, type == "wildcards")

df2 <- subset(males, type == "game-changers")

df3 <- subset(males, type == "play-makers")

## females
dff1<- subset(females, type == "wildcards")

dff2<- subset(females, type == "game-changers")
```

THE CODE BELOW WILL GENERATE THE TEAM NUMBER RANDOMLY IN A LIST. HOWEVER, SINCE WE HAVE AN UNEQUAL NUMBER OF PLAYERS IN THE WILDCARDS CATEGORY FOR MALES AND FEMALES WE HAVE TO SAMPLE 1:4, 6 TIMES WITH REPLACEMENT

```
set.seed(13)
## this will generate numbers 1 to 4 in a random order
teamnumber1 <-sample(1:4, 4, replace=F)
teamnumber1
```

```
## [1] 3 1 4 2
```

```
## this will do the same as above, but in two sets since wildcards has 6 players
teamnumber3 <- sample(1:4, 4, replace=F)
teamnumber4 <- sample(1:4, 2, replace=F)

teamnumber2 <- c(teamnumber3, teamnumber4)
teamnumber2
```

```
## [1] 4 1 2 3 4 1
```

TEAMS FOR MALES

```
## add the groupnumber as a column to the dataframes
jnk1 <- cbind(df1[sample(nrow(df1)),],teamnumber2)
jnk2 <- cbind(df2[sample(nrow(df2)),],teamnumber1)
jnk3 <- cbind(df3[sample(nrow(df3)),],teamnumber1)

## rename the 5th column
names(jnk1)[5] <- "team"
names(jnk2)[5] <- "team"
names(jnk3)[5] <- "team"

finalmales <- rbind(jnk1,jnk2,jnk3)
```

TEAMS FOR FEMALES

```
fjnk1 <- cbind(dff1[sample(nrow(dff1)),],teamnumber2)
fjnk2 <- cbind(dff2[sample(nrow(dff2)),],teamnumber1)

names(fjnk1)[5] <- "team"
names(fjnk2)[5] <- "team"

finalfemales <- rbind(fjnk1,fjnk2)
```

ALL GENDERS COMBINED

```
allplayers <- rbind(finalmales, finalfemales)

team1 <- allplayers %>% filter(team==1)
team2 <- allplayers %>% filter(team==2)
team3 <- allplayers %>% filter(team==3)
team4 <- allplayers %>% filter(team==4)

team1
```

##		name	gender	total	type	team
## 1		thejus	male	0	wildcards	1
## 2		Aditya Iyer	male	0	wildcards	1
## 3		mahesh	male	14	game-changers	1
## 4	Sankarshan	talluri	male	10	game-changers	1
## 5		nishant	male	18	play-makers	1
## 6	chintan	sheth	male	18	play-makers	1
## 7		Varsha	female	0	wildcards	1
## 8		Deepthi	female	0	wildcards	1
## 9		Maitri	female	11	game-changers	1

team2

##		name	gender	total	type	team
## 1		Alok	male	9	wildcards	2
## 2		Umesh Mohan	male	13	game-changers	2
## 3		sid	male	14	game-changers	2
## 4	Sarang	Mishrikotkar	male	17	play-makers	2
## 5		Mayukh Dey	male	20	play-makers	2
## 6		Komal Gupta	female	0	wildcards	2
## 7		Rasika	female	13	game-changers	2

team3

##		name	gender	total	type	team
## 1		Anurag	male	0	wildcards	3
## 2		Suhas	male	12	game-changers	3
## 3	Pankaj Kumar	Chauhan	male	10	game-changers	3
## 4		Abin Ghosh	male	17	play-makers	3
## 5		Pavan	male	17	play-makers	3
## 6		ARYA NAIR	female	0	wildcards	3
## 7		Shubhra	female	14	game-changers	3

team4

##		name	gender	total	type	team
## 1	Shivansh	Singhal	male	0	wildcards	4
## 2	ARKA PRROVO	DAS	male	0	wildcards	4
## 3		Sachin Rawat	male	14	game-changers	4
## 4	Rohit	Nandakumar	male	15	game-changers	4
## 5		Joshua	male	21	play-makers	4
## 6		Chaitanya	male	19	play-makers	4
## 7		rachna	female	9	wildcards	4
## 8		Rohini	female	0	wildcards	4
## 9	Simran	Virdi	female	12	game-changers	4