

Game

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9/8/2020

```
knitr::opts_chunk$set(echo = TRUE)
```

```
library(readxl)
categories <- read_excel("C:/Users/andyw/Desktop/Game.xlsm")
cat_modified <- categories[-nrow(categories),]
```

```
categories[sample(nrow(categories), 4),]
```

```
# A tibble: 4 x 1
  Categories
  <chr>
1 Nationalities
2 Singers
3 Album Covers
4 Scientists
```

```
replicate(3, categories[sample(nrow(categories), 4),])
```

```
$Categories
[1] "Plants"          "Former Heads of State" "Reptiles"
[4] "Nationalities"

$Categories
[1] "Food/Cuisines"      "Authors"          "Birds"
[4] "Current Heads of State"

$Categories
[1] "Composers"      "Actresses"      "Logos"          "Nationalities"
```

```
n=1
for (i in 1:n){
  print(i)
  results <- replicate(1, categories[sample(nrow(categories), 4),])
  print(results)
}
```

```
[1] 1
$Categories
[1] "Birds"          "Food/Cuisines" "Reptiles"      "Activists"
```

```
n=190
for (i in 1:n){
  results_df <- data.frame(replicate(1, categories[sample(nrow(categories), 4),]))
  colnames(results_df) <- NULL
  cat("Pool #", i)
  print(results_df, row.names=FALSE)
  cat("\n")
}
```

Pool # 1

Mammals
Actresses
Former Heads of State
Historic Photos

Pool # 2

Movie Stills
Fruits/Vegetables
Historic Photos
Singers

Pool # 3

Flags
Fishes
Activists
Singers

Pool # 4

Singers
Album Covers
Birds
Logos

Pool # 5

Art
Birds
Movie Stills
Logos

Pool # 6

Random
Fishes
Birds
Nationalities

Pool # 7

Movie Characters
Logos
Current Heads of State
Nationalities

Pool # 8

Actors
Plants
Random
Athletes

Pool # 9

Scientists
Reptiles
Nationalities

Album Covers

Pool # 10

TV Characters

Fruits/Vegetables

Inventors

Activists

Pool # 11

Random

Authors

TV Characters

Food/Cuisines

Pool # 12

Actresses

Actors

Fishes

Authors

Pool # 13

TV Characters

Random

Fruits/Vegetables

Insects

Pool # 14

Nationalities

Current Heads of State

Album Covers

Scientists

Pool # 15

Video Game Characters

Logos

Birds

Reptiles

Pool # 16

Video Game Characters

Birds

Directors

Plants

Pool # 17

Singers

Insects

Composers

Historic Photos

Pool # 18

Mammals

Movie Stills
Random
Fishes

Pool # 19

Movie Stills
Art
Authors
Mammals

Pool # 20

Insects
Former Heads of State
Art
Reptiles

Pool # 21

Directors
Logos
Flags
Actors

Pool # 22

Movie Characters
Historic Photos
Food/Cuisines
Art

Pool # 23

Directors
Athletes
Fishes
Landmarks

Pool # 24

Scientists
Singers
Birds
Art

Pool # 25

Album Covers
Fishes
Flags
Authors

Pool # 26

Fishes
Directors
Scientists
Former Heads of State

Pool # 27

Reptiles

Composers

Art

Nationalities

Pool # 28

TV Characters

Scientists

Fishes

Musical Instruments

Pool # 29

Actresses

Movie Stills

Inventors

Insects

Pool # 30

Movie Stills

Historic Photos

Actresses

Composers

Pool # 31

Musical Instruments

Athletes

Food/Cuisines

Flags

Pool # 32

Random

Landmarks

Movie Stills

Video Game Characters

Pool # 33

Birds

TV Characters

Video Game Characters

Athletes

Pool # 34

Art

Actresses

Birds

Mammals

Pool # 35

Flags

Actresses

Historic Photos

Nationalities

Pool # 36

Current Heads of State
Logos
Fishes
Random

Pool # 37

Fishes
Video Game Characters
Reptiles
Birds

Pool # 38

Inventors
Actresses
Actors
Historic Photos

Pool # 39

Food/Cuisines
Landmarks
Musical Instruments
Movie Characters

Pool # 40

Actresses
Plants
Video Game Characters
Movie Characters

Pool # 41

Movie Characters
Fruits/Vegetables
Movie Stills
Birds

Pool # 42

Authors
Actresses
Video Game Characters
Random

Pool # 43

Reptiles
Fishes
Art
Flags

Pool # 44

Movie Stills

Fruits/Vegetables
Reptiles
Plants

Pool # 45

Movie Characters
Actresses
Video Game Characters
Fishes

Pool # 46

Video Game Characters
Movie Stills
Birds
Musical Instruments

Pool # 47

Video Game Characters
Directors
Fruits/Vegetables
Authors

Pool # 48

Movie Stills
Art
Inventors
Video Game Characters

Pool # 49

Former Heads of State
Current Heads of State
Scientists
Random

Pool # 50

Video Game Characters
Singers
Nationalities
Directors

Pool # 51

Video Game Characters
Fishes
Former Heads of State
Movie Characters

Pool # 52

Mammals
Landmarks
Actresses
Random

Pool # 53

Fishes
Landmarks
Composers
Nationalities

Pool # 54

Athletes
Scientists
Former Heads of State
Actors

Pool # 55

Composers
Singers
Reptiles
Actors

Pool # 56

Former Heads of State
Current Heads of State
Food/Cuisines
Fishes

Pool # 57

Activists
Random
Art
Flags

Pool # 58

Movie Stills
Art
TV Characters
Athletes

Pool # 59

Reptiles
Album Covers
Musical Instruments
Flags

Pool # 60

Activists
Former Heads of State
Reptiles
Directors

Pool # 61

Reptiles
Athletes
Movie Stills

Fishes

Pool # 62

Birds

Singers

Scientists

Random

Pool # 63

Activists

Fishes

Mammals

Athletes

Pool # 64

Authors

TV Characters

Directors

Reptiles

Pool # 65

Flags

Directors

Mammals

Album Covers

Pool # 66

Actresses

Art

Directors

Fishes

Pool # 67

Singers

Directors

Mammals

Inventors

Pool # 68

Musical Instruments

Current Heads of State

Birds

Flags

Pool # 69

Authors

Art

Inventors

Nationalities

Pool # 70

Random

Logos
Fruits/Vegetables
Actors

Pool # 71
Scientists
Mammals
Movie Characters
Singers

Pool # 72
Flags
Movie Characters
Actresses
Birds

Pool # 73
Actors
Historic Photos
Athletes
Food/Cuisines

Pool # 74
Former Heads of State
Fruits/Vegetables
Mammals
Art

Pool # 75
Movie Stills
TV Characters
Nationalities
Random

Pool # 76
Fruits/Vegetables
Actresses
Former Heads of State
Reptiles

Pool # 77
Singers
Movie Stills
Birds
Flags

Pool # 78
Fishes
Video Game Characters
Scientists
Historic Photos

Pool # 79

Directors

Actors

Mammals

Musical Instruments

Pool # 80

Former Heads of State

Actors

Singers

Album Covers

Pool # 81

Current Heads of State

Composers

Former Heads of State

Fruits/Vegetables

Pool # 82

Actors

Authors

Athletes

Landmarks

Pool # 83

Landmarks

Mammals

Athletes

Nationalities

Pool # 84

Video Game Characters

Insects

Inventors

Art

Pool # 85

Authors

Flags

Landmarks

Reptiles

Pool # 86

Reptiles

Art

Actresses

Album Covers

Pool # 87

Former Heads of State

Logos

Album Covers

TV Characters

Pool # 88

- Video Game Characters
 - Composers
 - Singers
 - Reptiles

Pool # 89

- Random
- Flags
- Food/Cuisines
- Nationalities

Pool # 90

- Historic Photos
 - Insects
 - Landmarks
 - Composers

Pool # 91

- Historic Photos
 - Landmarks
 - Logos
 - Actors

Pool # 92

- Nationalities
 - Actors
 - Fishes
 - Directors

Pool # 93

- Food/Cuisines
- Fruits/Vegetables
 - Authors
- Nationalities

Pool # 94

- Video Game Characters
 - Authors
 - Scientists
 - TV Characters

Pool # 95

- Historic Photos
 - Birds
- Fruits/Vegetables
- Directors

Pool # 96

- Actors

Logos
Singers
Plants

Pool # 97

Athletes
Nationalities
Movie Stills
Authors

Pool # 98

Actresses
Art
Reptiles
Fishes

Pool # 99

Birds
Nationalities
Authors
Activists

Pool # 100

Scientists
Fruits/Vegetables
Historic Photos
Birds

Pool # 101

Musical Instruments
Movie Stills
Birds
Actresses

Pool # 102

Album Covers
Musical Instruments
Movie Stills
Former Heads of State

Pool # 103

Video Game Characters
Historic Photos
Composers
Food/Cuisines

Pool # 104

Movie Stills
Insects
Actors
Nationalities

Pool # 105

Inventors
Food/Cuisines
Actors
Former Heads of State

Pool # 106

Reptiles
Singers
Plants
Actors

Pool # 107

Actresses
Fruits/Vegetables
Flags
Plants

Pool # 108

Flags
Composers
Current Heads of State
Directors

Pool # 109

Video Game Characters
Musical Instruments
Composers
Birds

Pool # 110

Directors
Musical Instruments
Inventors
Movie Stills

Pool # 111

Insects
Inventors
Logos
Fishes

Pool # 112

Album Covers
Former Heads of State
Video Game Characters
Plants

Pool # 113

Flags
Reptiles
Composers

Musical Instruments

Pool # 114

Video Game Characters

Landmarks

Historic Photos

Authors

Pool # 115

Flags

Composers

TV Characters

Album Covers

Pool # 116

Random

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Fishes

Movie Characters

Pool # 117

Musical Instruments

Fishes

Authors

Movie Characters

Pool # 118

Insects

TV Characters

Actors

Album Covers

Pool # 119

Album Covers

Logos

Fishes

Inventors

Pool # 120

Reptiles

Album Covers

Movie Stills

Nationalities

Pool # 121

Random

Former Heads of State

Activists

Reptiles

Pool # 122

Fruits/Vegetables

Nationalities

Scientists

Art

Pool # 123

Random

Movie Stills

Video Game Characters

Nationalities

Pool # 124

Art

Flags

Video Game Characters

Current Heads of State

Pool # 125

Fruits/Vegetables

Logos

Movie Stills

Insects

Pool # 126

Actors

Musical Instruments

Directors

Fishes

Pool # 127

Directors

Album Covers

Current Heads of State

Movie Characters

Pool # 128

Insects

Plants

Historic Photos

Fruits/Vegetables

Pool # 129

Singers

Inventors

Album Covers

Directors

Pool # 130

Random

Composers

Scientists

Video Game Characters

Pool # 131

- Athletes
- Album Covers
- Actresses
- Birds

Pool # 132

- Authors
- Birds
- Landmarks
- Actors

Pool # 133

- Video Game Characters
 - Directors
 - Composers
- Movie Characters

Pool # 134

- Birds
- Movie Stills
- Historic Photos
- Composers

Pool # 135

- Plants
- Musical Instruments
- Fruits/Vegetables
- Reptiles

Pool # 136

- Nationalities
- Directors
- Composers
- Food/Cuisines

Pool # 137

- Activists
- Mammals
- Fishes
- Scientists

Pool # 138

- Movie Stills
- TV Characters
- Logos
- Current Heads of State

Pool # 139

- Fishes
- Mammals
- Movie Stills

Flags

Pool # 140

Mammals

Plants

Nationalities

Fruits/Vegetables

Pool # 141

Logos

Activists

Singers

Current Heads of State

Pool # 142

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Landmarks

Album Covers

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Pool # 143

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Singers

Scientists

Pool # 144

Birds

Plants

Food/Cuisines

Fishes

Pool # 145

Insects

Actors

Actresses

Art

Pool # 146

Food/Cuisines

Fruits/Vegetables

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Inventors

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Insects
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Logos

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Composers

Pool # 153

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Actors
Fruits/Vegetables

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Composers
Athletes
Scientists

Pool # 155

Mammals
TV Characters
Musical Instruments
Inventors

Pool # 156

Inventors
Movie Characters
Fruits/Vegetables
Scientists

Pool # 157

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Fruits/Vegetables
Birds
Composers
Activists

Pool # 159

Directors
Movie Stills
Fruits/Vegetables
Singers

Pool # 160

Composers
Inventors
Former Heads of State
Singers

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Pool # 162

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Former Heads of State
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Pool # 164

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Activists
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Pool # 165

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Inventors
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Pool # 184

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Pool # 185

TV Characters

Composers

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Current Heads of State

Movie Stills

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TV Characters

Video Game Characters

Fruits/Vegetables

Pool # 189

Former Heads of State

TV Characters

Food/Cuisines

Art

Pool # 190

Former Heads of State

Birds

Scientists

Current Heads of State


```

#Special Round #1
n1=1
n2=1
n3=1
n_mean <- mean(c(n1,n2,n3))
n_rounded <- round(n_mean,0)

n=n_rounded
for (i in 1:n){
  results_df <- data.frame(replicate(1, cat_modified[sample(nrow(cat_modified), 2),]))
  colnames(results_df) <- NULL
  cat("Pool #", i)
  print(results_df, row.names=FALSE)
  cat("\n")
}

```

Pool # 1
 Reptiles
 Actresses

```

#Special Round #2
n=1
players = c("Abaz", "Amanda", "Basma")

for(i in 1:n){
  player_name <- sample(players,size = 1)
  cat(i, player_name)
  cat("\n")
  cat("\n")
}

```

1 Basma

```

for (i in 1:n){
  results_df <- data.frame(replicate(1, cat_modified[sample(nrow(cat_modified), 2),]))
  colnames(results_df) <- NULL
  cat("Pool #", i)
  print(results_df, row.names=FALSE)
  cat("\n")
}

```

Pool # 1
 Musical Instruments
 Actors