# STATS 205: Final Project Write-Up

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### 1. Background of the data and why it is interesting or important

The data we are using is the data from WHO suicide statistics from Kaggle. This gives population-based statistics on suicide rate...

#### 2. Explanation of the method studied and its properties

#### 3. Data analysis or simulation study

We will use the crude rate of suicide per 100,000 people.

This analysis provides information on age-standardized rates...

```
who_suicide_statistics_df <- read.csv("who_suicide_statistics.csv")</pre>
head(who suicide statistics df)
    country year
                                age suicides_no population
##
                    sex
## 1 Albania 1985 female 15-24 years
                                             NA
                                                    277900
## 2 Albania 1985 female 25-34 years
                                             NA
                                                    246800
## 3 Albania 1985 female 35-54 years
                                             NA
                                                    267500
## 4 Albania 1985 female 5-14 years
                                             NA
                                                    298300
## 5 Albania 1985 female 55-74 years
                                             NA
                                                    138700
## 6 Albania 1985 female
                          75+ years
                                                     34200
                                             NA
colnames(who suicide statistics df)
## [1] "country"
                     "year"
                                  "sex"
                                                "age"
                                                              "suicides no"
## [6] "population"
    Filter and save countries with missing suicide rate.
library(tidyverse)
## Registered S3 methods overwritten by 'ggplot2':
    method
                   from
##
    [.quosures
                   rlang
    c.quosures
                   rlang
    print.quosures rlang
## -- Attaching packages -----
                                          ----- tidyverse 1.2.1 --
## v ggplot2 3.1.1
                      v purrr
                                0.3.2
## v tibble 2.1.1
                      v dplyr
                                0.8.1
## v tidyr
            0.8.3
                      v stringr 1.4.0
## v readr
            1.3.1
                      v forcats 0.4.0
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
```

```
filtered_suicide_df <- drop_na(who_suicide_statistics_df, "suicides_no")
head(filtered_suicide_df)
##
      country year
                                    age suicides_no population
                       sex
## 25 Albania 1987 female 15-24 years
                                                          289700
## 26 Albania 1987 female 25-34 years
                                                          257200
## 27 Albania 1987 female 35-54 years
                                                   6
                                                          278800
                                                   0
## 28 Albania 1987 female 5-14 years
                                                          311000
## 29 Albania 1987 female 55-74 years
                                                    0
                                                          144600
## 30 Albania 1987 female
                             75+ years
                                                    1
                                                           35600
     After filtering countries with missing suicide rate, take a random sample of 100 countries and
     make sure each continent has approximately equal countries.
Filter countries by continent:
library(countrycode)
filtered_suicide_df$continent <- countrycode(sourcevar = filtered_suicide_df[, "country"],
                              origin = "country.name",
                              destination = "continent")
## Warning in countrycode(sourcevar = filtered_suicide_df[, "country"], origin = "country.name", : Some
## Warning in countrycode(sourcevar = filtered_suicide_df[, "country"], origin = "country.name", : Some
head(filtered_suicide_df)
##
      country year
                                    age suicides_no population continent
## 25 Albania 1987 female 15-24 years
                                                          289700
                                                  14
                                                                     Europe
## 26 Albania 1987 female 25-34 years
                                                          257200
                                                                     Europe
## 27 Albania 1987 female 35-54 years
                                                   6
                                                                     Europe
                                                          278800
                                                                     Europe
## 28 Albania 1987 female 5-14 years
                                                          311000
## 29 Albania 1987 female 55-74 years
                                                   0
                                                          144600
                                                                     Europe
## 30 Albania 1987 female
                             75+ years
                                                           35600
                                                                     Europe
write.csv(filtered_suicide_df, 'filtered_suicide.csv')
Let us find out which continents are counted:
# Get list of continents
list_of_continents <- unique(filtered_suicide_df$continent); list_of_continents</pre>
## [1] "Europe"
                   "Americas" "Asia"
                                           "Oceania" "Africa"
                                                                   NA
Therefore,
                          \frac{100 \text{ countries}}{6 \text{ continents}} \approx 16 \text{ to } 17 \text{ countries per continent}
we should randomly sample 17 countries from each continent.
Notably, there are countries that are not on any of the listed continents. Let us see which ones those are:
not_in_a_continent = filtered_suicide_df[is.na(filtered_suicide_df$continent),]
write.csv(not_in_a_continent, 'not_in_a_continent.csv')
head(not_in_a_continent)
           country year
                                          age suicides_no population continent
                             sex
## 32317 Rodrigues 2001 female 15-24 years
                                                         0
                                                                    NA
                                                                             <NA>
## 32318 Rodrigues 2001 female 25-34 years
                                                         0
                                                                             <NA>
```

```
## 32319 Rodrigues 2001 female 35-54 years
                                                                          <NA>
## 32320 Rodrigues 2001 female 5-14 years
                                                       0
                                                                          <NA>
                                                                 NΑ
## 32321 Rodrigues 2001 female 55-74 years
                                                                 NA
                                                                          <NA>
## 32322 Rodrigues 2001 female
                                  75+ years
                                                                 NΔ
                                                                          <NA>
unique(not_in_a_continent$country)
## [1] Rodrigues
                             Virgin Islands (USA)
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
Let us make the choice not to include these countries in the analysis, since there are only two countries.
# Take off `NA` from list of continents
list_of_continents <- list_of_continents[-length(list_of_continents)]</pre>
list_of_continents
                  "Americas" "Asia"
## [1] "Europe"
                                         "Oceania"
                                                    "Africa"
We will now create six dataframes, filtered by list of countries for each continent.
# library(rlist)
countries_per_continent <- list()</pre>
for (i in seq_along(list_of_continents))
    countries_per_continent[[i]] <- filtered_suicide_df[filtered_suicide_df$continent == list_of_contin
}
length(countries per continent)
## [1] 5
length(countries per continent)
## [1] 5
for (i in seq_along(countries_per_continent))
    print(head(countries_per_continent[[i]]))
    print(length(countries_per_continent[[i]]))
    cat("\n")
}
##
                                   age suicides_no population continent
      country year
                       sex
## 25 Albania 1987 female 15-24 years
                                                        289700
                                                                  Europe
## 26 Albania 1987 female 25-34 years
                                                        257200
                                                                  Europe
                                                 4
## 27 Albania 1987 female 35-54 years
                                                 6
                                                        278800
                                                                  Europe
## 28 Albania 1987 female 5-14 years
                                                 0
                                                        311000
                                                                  Europe
## 29 Albania 1987 female 55-74 years
                                                        144600
                                                 0
                                                                  Europe
## 30 Albania 1987 female 75+ years
                                                         35600
                                                 1
                                                                  Europe
## [1] 7
##
        country year
                                     age suicides_no population continent
                        sex
## 373 Anguilla 1983 female 15-24 years
                                                   0
                                                              NA Americas
## 374 Anguilla 1983 female 25-34 years
                                                    0
                                                              NA Americas
## 375 Anguilla 1983 female 35-54 years
                                                    0
                                                              NA Americas
## 376 Anguilla 1983 female 5-14 years
                                                    0
                                                              NA Americas
## 377 Anguilla 1983 female 55-74 years
                                                    0
                                                              NA Americas
## 378 Anguilla 1983 female 75+ years
                                                              NA Americas
```

```
## [1] 7
##
##
        country year
                                     age suicides no population continent
## 1501 Armenia 1981 female 15-24 years
                                                          348000
                                                                       Asia
## 1502 Armenia 1981 female 25-34 years
                                                    6
                                                          242200
                                                                       Asia
## 1503 Armenia 1981 female 35-54 years
                                                    6
                                                          333500
                                                                       Asia
## 1504 Armenia 1981 female 5-14 years
                                                    0
                                                          295200
                                                                       Asia
## 1505 Armenia 1981 female 55-74 years
                                                   10
                                                          164300
                                                                       Asia
## 1506 Armenia 1981 female
                               75+ years
                                                    7
                                                           43100
                                                                       Asia
## [1] 7
##
##
                                       age suicides_no population continent
          country year
                           sex
## 2161 Australia 1979 female 15-24 years
                                                     71
                                                           1236800
                                                                      Oceania
## 2162 Australia 1979 female 25-34 years
                                                     86
                                                           1138500
                                                                      Oceania
## 2163 Australia 1979 female 35-54 years
                                                    171
                                                                      Oceania
                                                           1572100
## 2164 Australia 1979 female 5-14 years
                                                      1
                                                           1246500
                                                                      Oceania
                                                           1137800
## 2165 Australia 1979 female 55-74 years
                                                    135
                                                                      Oceania
## 2166 Australia 1979 female
                                 75+ years
                                                     15
                                                            309900
                                                                      Oceania
## [1] 7
##
##
           country year
                                        age suicides_no population continent
                            sex
## 7669 Cabo Verde 2011 female 15-24 years
                                                              56039
## 7670 Cabo Verde 2011 female 25-34 years
                                                       0
                                                              38528
                                                                        Africa
## 7671 Cabo Verde 2011 female 35-54 years
                                                       2
                                                              49078
                                                                        Africa
                                                              56558
## 7672 Cabo Verde 2011 female 5-14 years
                                                       0
                                                                        Africa
## 7673 Cabo Verde 2011 female 55-74 years
                                                       2
                                                              19887
                                                                        Africa
## 7674 Cabo Verde 2011 female
                                  75+ years
                                                       0
                                                               7582
                                                                        Africa
## [1] 7
```

This text links to very important information about why a for loop doesn't print anything.<sup>1</sup>

Link to Pandoc Markdown formatting

Randomly sample 17 countries from each continent:

```
list_of_continents
```

## [10] Estonia

```
## [1] "Europe"
                   "Americas" "Asia"
                                          "Oceania"
                                                     "Africa"
for (i in seq_along(countries_per_continent))
    print(list_of_continents[i])
    countries <- unique(countries_per_continent[[i]]$country)</pre>
    print(countries)
    print(length(countries))
    cat("\n")
}
## [1] "Europe"
##
    [1] Albania
                                 Austria
                                                         Belarus
##
    [4] Belgium
                                Bosnia and Herzegovina Bulgaria
##
    [7] Croatia
                                                         Denmark
                                Czech Republic
```

France

Finland

<sup>&</sup>lt;sup>1</sup>Basically, for loops are functions themselves. R prints out the result of a command automatically, but functions are not inherently a command, and since for loops are functions, nothing will be printed. The solution is to have print(command()) within the for loop to get output for your for loop. You will never again spend hours trying to find out why a for loop doesn't print anything because you're no longer an R newbie.

```
## [13] Germany
                               Greece
                                                       Hungary
## [16] Iceland
                               Ireland
                                                       Italy
## [19] Latvia
                               Lithuania
                                                       Luxembourg
## [22] Malta
                               Monaco
                                                       Montenegro
## [25] Netherlands
                               Norway
                                                       Poland
## [28] Portugal
                               Republic of Moldova
                                                       <NA>
## [31] Romania
                               Russian Federation
                                                       San Marino
## [34] Serbia
                               Slovakia
                                                       Slovenia
## [37] Spain
                               Sweden
                                                       Switzerland
## [40] TFYR Macedonia
                               Ukraine
                                                       United Kingdom
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] 42
## [1] "Americas"
## [1] Anguilla
                                            Antigua and Barbuda
## [3] Argentina
                                            Aruba
## [5] Bahamas
                                           Barbados
## [7] Belize
                                           Bermuda
## [9] Bolivia
                                           Brazil
## [11] British Virgin Islands
                                           Canada
## [13] Cayman Islands
                                           Chile
## [15] Colombia
                                           Costa Rica
## [17] Cuba
                                           Dominica
## [19] Dominican Republic
                                           Ecuador
## [21] El Salvador
                                           Falkland Islands (Malvinas)
## [23] French Guiana
                                           Grenada
## [25] Guadeloupe
                                           Guatemala
## [27] Guyana
                                           Haiti
## [29] Honduras
                                            Jamaica
## [31] Martinique
                                           Mexico
## [33] Montserrat
                                           Netherlands Antilles
## [35] Nicaragua
                                            Panama
## [37] Paraguay
                                           Peru
## [39] Puerto Rico
                                            <NA>
## [41] Saint Kitts and Nevis
                                           Saint Lucia
                                           Saint Vincent and Grenadines
## [43] Saint Pierre and Miquelon
## [45] Suriname
                                           Trinidad and Tobago
## [47] Turks and Caicos Islands
                                           United States of America
## [49] Uruguay
                                           Venezuela (Bolivarian Republic of)
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] 50
##
## [1] "Asia"
## [1] Armenia
                                       Azerbaijan
## [3] Bahrain
                                       Brunei Darussalam
## [5] Cyprus
                                       Georgia
                                       Iran (Islamic Rep of)
## [7] Hong Kong SAR
## [9] Iraq
                                       Israel
## [11] Japan
                                       Jordan
## [13] Kazakhstan
                                       Kuwait
## [15] Kyrgyzstan
                                       Macau
## [17] Malaysia
                                       Maldives
## [19] Mongolia
                                       Occupied Palestinian Territory
## [21] Oman
                                       Philippines
```

```
## [23] Qatar
                                       Republic of Korea
## [25] <NA>
                                       Saudi Arabia
## [27] Singapore
                                       Sri Lanka
## [29] Syrian Arab Republic
                                       Tajikistan
## [31] Thailand
                                       Turkey
## [33] Turkmenistan
                                       United Arab Emirates
## [35] Uzbekistan
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] 35
##
## [1] "Oceania"
## [1] Australia
                   Fiji
                               Kiribati
                                           New Zealand <NA>
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] 5
##
## [1] "Africa"
## [1] Cabo Verde
                              Egypt
                                                     Mauritius
## [4] Mayotte
                              Morocco
                                                     Reunion
## [7] <NA>
                              Sao Tome and Principe Seychelles
## [10] South Africa
                              Tunisia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
```

Since there are only 5 countries in Oceania and 12 countries in Africa, we will use all 5 countries of Oceania and all 12 countries of Africa.

```
samples_of_countries <- list()
num_samples <- 17
for (i in seq_along(countries_per_continent))
{
    countries <- unique(countries_per_continent[[i]]$country)
    current_sample <- list()
    if (length(countries) >= num_samples)
    {
        current_sample <- sample(countries, 17)
    } else {
        current_sample <- sample(countries, length(countries))
    }
    samples_of_countries[[i]] <- current_sample
}</pre>
```

Let's see the countries that we will be sampling:

```
for (i in seq_along(samples_of_countries))
{
    print(list_of_continents[i])
    print(samples_of_countries[[i]])
    print(length(samples_of_countries[[i]]))
    cat("\n")
}
```

```
## [1] "Europe"

## [1] Poland Montenegro Malta

## [4] Croatia Ukraine Ireland

## [7] <NA> Denmark Latvia

## [10] Lithuania Spain San Marino
```

```
## [13] Norway
                                Estonia
                                                       Bosnia and Herzegovina
## [16] Germany
                                Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] "Americas"
  [1] Mexico
                                      Costa Rica
   [3] United States of America
                                      Antigua and Barbuda
##
   [5] Brazil
                                      Anguilla
## [7] Bermuda
                                      Honduras
## [9] Colombia
                                      Saint Pierre and Miquelon
## [11] Turks and Caicos Islands
                                      Saint Vincent and Grenadines
## [13] Panama
                                      Jamaica
## [15] Uruguay
                                      Argentina
## [17] Guyana
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] 17
##
## [1] "Asia"
## [1] Jordan
                              < NA >
                                                   Philippines
## [4] Azerbaijan
                             Tajikistan
                                                   Kazakhstan
## [7] Qatar
                             Iraq
                                                   Macau
## [10] Malaysia
                             Kyrgyzstan
                                                   Cyprus
## [13] Sri Lanka
                                                   Thailand
                             Georgia
## [16] United Arab Emirates Singapore
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] 17
## [1] "Oceania"
                                New Zealand Kiribati
## [1] <NA>
                   Australia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] 5
##
## [1] "Africa"
## [1] Sevchelles
                               <NA>
                                                     Mayotte
## [4] Cabo Verde
                               Zimbabwe
                                                     South Africa
## [7] Sao Tome and Principe Reunion
                                                     Egypt
## [10] Mauritius
                              Morocco
                                                     Tunisia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] 12
Let's filter the original dataframe only to include countries that we have sampled:
for (i in seq_along(samples_of_countries))
{
    # find out a way to access each country name
    # print each country name
    for (j in seq_along(samples_of_countries[[i]]))
        sample <- samples_of_countries[[i]]</pre>
        print(sample)
    }
    cat("\n")
}
```

```
## [1] Poland
                                                       Malta
                               Montenegro
##
  [4] Croatia
                               Ukraine
                                                       Ireland
                               Denmark
  [7] <NA>
                                                       Latvia
## [10] Lithuania
                                                       San Marino
                               Spain
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
   [1] Poland
                               Montenegro
                                                       Malta
##
   [4] Croatia
                               Ukraine
                                                       Ireland
##
  [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                               Spain
                                                       San Marino
## [13] Norway
                                                       Bosnia and Herzegovina
                               Estonia
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] Poland
                               Montenegro
                                                       Malta
## [4] Croatia
                               Ukraine
                                                       Ireland
## [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                                                       San Marino
                               Spain
## [13] Norway
                                                       Bosnia and Herzegovina
                               Estonia
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
  [1] Poland
                               Montenegro
                                                       Malta
## [4] Croatia
                                                       Ireland
                               Ukraine
## [7] <NA>
                                                       Latvia
                               Denmark
## [10] Lithuania
                               Spain
                                                       San Marino
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] Poland
                               Montenegro
                                                       Malta
## [4] Croatia
                               Ukraine
                                                       Ireland
## [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                               Spain
                                                       San Marino
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] Poland
                               Montenegro
                                                       Malta
## [4] Croatia
                               Ukraine
                                                       Ireland
## [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                               Spain
                                                       San Marino
## [13] Norway
                                                       Bosnia and Herzegovina
                               Estonia
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] Poland
                               Montenegro
                                                       Malta
## [4] Croatia
                                                       Ireland
                               Ukraine
## [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                                                       San Marino
                               Spain
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] Poland
                               Montenegro
                                                       Malta
## [4] Croatia
                                                       Ireland
                               Ukraine
## [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                               Spain
                                                       San Marino
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
```

```
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
                                                       Malta
  [1] Poland
                               Montenegro
  [4] Croatia
##
                               Ukraine
                                                       Ireland
   [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                                                       San Marino
                               Spain
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
  [1] Poland
                               Montenegro
                                                       Malta
## [4] Croatia
                               Ukraine
                                                       Ireland
## [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                               Spain
                                                       San Marino
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] Poland
                               Montenegro
                                                       Malta
## [4] Croatia
                               Ukraine
                                                       Ireland
## [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                               Spain
                                                       San Marino
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] Poland
                                                       Malta
                               Montenegro
## [4] Croatia
                                                       Ireland
                               Ukraine
  [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                               Spain
                                                       San Marino
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
                               Slovakia
## [16] Germany
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] Poland
                               Montenegro
                                                       Malta
## [4] Croatia
                               Ukraine
                                                       Ireland
## [7] <NA>
                               Denmark
                                                       Latvia
                                                       San Marino
## [10] Lithuania
                               Spain
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
                               Slovakia
## [16] Germany
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] Poland
                               Montenegro
                                                       Malta
##
   [4] Croatia
                               Ukraine
                                                       Ireland
## [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                               Spain
                                                       San Marino
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] Poland
                               Montenegro
                                                       Malta
## [4] Croatia
                                                       Ireland
                               Ukraine
## [7] <NA>
                               Denmark
                                                       Latvia
## [10] Lithuania
                               Spain
                                                       San Marino
## [13] Norway
                               Estonia
                                                       Bosnia and Herzegovina
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] Poland
                               Montenegro
                                                       Malta
## [4] Croatia
                               Ukraine
                                                       Ireland
## [7] <NA>
                               Denmark
                                                       Latvia
```

```
## [10] Lithuania
                               Spain
                                                       San Marino
## [13] Norway
                               Estonia
                                                      Bosnia and Herzegovina
## [16] Germany
                               Slovakia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
   [1] Poland
                               Montenegro
                                                      Malta
##
  [4] Croatia
                               Ukraine
                                                       Ireland
  [7] <NA>
                               Denmark
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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
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  [3] United States of America
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   [5] Brazil
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	[9] Colombia	Saint Pierre and Miquelon
	[11] Turks and Caicos Islands	Saint Vincent and Grenadines
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	[17] Guyana	AIGCHUING
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	[9] Colombia	Saint Pierre and Miquelon
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	[13] Panama	Jamaica
	[15] Uruguay	Argentina
	[17] Guyana	
	•	igua and Barbuda Argentina Zimbabwe
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##	[11] Turks and Caicos Islands	Saint Vincent and Grenadines
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## ## ## ## ##	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda	Costa Rica Antigua and Barbuda Anguilla Honduras
## ## ## ## ## ##	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama	Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon
## ## ## ## ## ##	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay	Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines
## ## ## ## ## ##	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana	Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina
## ## ## ## ## ##	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana 141 Levels: Albania Anguilla Ant	Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina igua and Barbuda Argentina Zimbabwe
## ## ## ## ## ## ##	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana 141 Levels: Albania Anguilla Ant [1] Mexico	Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina igua and Barbuda Argentina Zimbabwe Costa Rica
## ## ## ## ## ## ##	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana 141 Levels: Albania Anguilla Ant [1] Mexico [3] United States of America	Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina igua and Barbuda Argentina Zimbabwe Costa Rica Antigua and Barbuda
## ## ## ## ## ## ## ##	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana 141 Levels: Albania Anguilla Ant [1] Mexico [3] United States of America [5] Brazil	Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina  igua and Barbuda Argentina Zimbabwe Costa Rica Antigua and Barbuda Anguilla
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## ## ## ## ## ## ## ## ## ## ## ## ##	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana 141 Levels: Albania Anguilla Ant [1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay	Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina  igua and Barbuda Argentina Zimbabwe Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines
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## ## ## ## ## ## ## ## ## ## ## ## ##	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana 141 Levels: Albania Anguilla Ant [1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana 141 Levels: Albania Anguilla Ant [1] Mexico	Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina  igua and Barbuda Argentina Zimbabwe Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina  igua and Barbuda Argentina Zimbabwe Costa Rica
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## # # # # # # # # # # # # # # # # # #	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana 141 Levels: Albania Anguilla Ant [1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana 141 Levels: Albania Anguilla Ant [1] Mexico [3] United States of America [5] Brazil [7] Bermuda	Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina  igua and Barbuda Argentina Zimbabwe Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina  igua and Barbuda Argentina Zimbabwe Costa Rica Antigua and Barbuda Argentina Zimbabwe Costa Rica Antigua and Barbuda Anguilla Honduras
## # # # # # # # # # # # # # # # # # #	[1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana 141 Levels: Albania Anguilla Ant [1] Mexico [3] United States of America [5] Brazil [7] Bermuda [9] Colombia [11] Turks and Caicos Islands [13] Panama [15] Uruguay [17] Guyana 141 Levels: Albania Anguilla Ant [1] Mexico [3] United States of America [5] Brazil	Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina  igua and Barbuda Argentina Zimbabwe Costa Rica Antigua and Barbuda Anguilla Honduras Saint Pierre and Miquelon Saint Vincent and Grenadines Jamaica Argentina  igua and Barbuda Argentina Zimbabwe Costa Rica Antigua and Barbuda Argentina Zimbabwe Costa Rica Antigua and Barbuda Anguilla

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## [13] Panama
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                                     Anguilla
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## [9] Colombia
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                                     Saint Vincent and Grenadines
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## [13] Panama
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## [15] Uruguay
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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
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## [15] Uruguay
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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe

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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
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## [1] <NA>
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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] <NA>
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                               New Zealand Kiribati
                                                        Fiji
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] <NA>
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                               New Zealand Kiribati
                                                        Fiji
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
## [1] <NA>
                   Australia
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                                                        Fiji
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
##
   [1] Seychelles
                              <NA>
                                                     Mayotte
   [4] Cabo Verde
                              Zimbabwe
                                                     South Africa
## [7] Sao Tome and Principe Reunion
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## [10] Mauritius
                              Morocco
                                                     Tunisia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
  [1] Seychelles
                              <NA>
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## [4] Cabo Verde
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                                                     South Africa
## [7] Sao Tome and Principe Reunion
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## [10] Mauritius
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                                                     Tunisia
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
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[1] Sevchelles
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                                                    Mayotte
   [4] Cabo Verde
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   [7] Sao Tome and Principe Reunion
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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
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   [4] Cabo Verde
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                                                    South Africa
  [7] Sao Tome and Principe Reunion
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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
   [1] Seychelles
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   [4] Cabo Verde
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  [7] Sao Tome and Principe Reunion
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## [10] Mauritius
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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
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   [4] Cabo Verde
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                                                    South Africa
  [7] Sao Tome and Principe Reunion
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## [10] Mauritius
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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
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   [4] Cabo Verde
                              Zimbabwe
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  [7] Sao Tome and Principe Reunion
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  [4] Cabo Verde
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                                                    South Africa
  [7] Sao Tome and Principe Reunion
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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
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   [7] Sao Tome and Principe Reunion
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## [10] Mauritius
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## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
   [1] Seychelles
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   [4] Cabo Verde
                              Zimbabwe
                                                    South Africa
  [7] Sao Tome and Principe Reunion
                                                    Egypt
                                                    Tunisia
## [10] Mauritius
                              Morocco
## 141 Levels: Albania Anguilla Antigua and Barbuda Argentina ... Zimbabwe
```

## 4. Interpretation of the results or discussion