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'''
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NAME          : DEEKSHA R SHETTY
COLLEGE       : DAYANANDA SAGAR UNIVERSITY
BRANCH        : AEROSPACE ENGINEERING
YEAR          : FIRST YEAR
DATASET SOURCE : KAGGLE
MAIL ID       : deekshashetty082@gmail.com
'''
```

```
#Creating DataFrame from dataset
```

```
import pandas as pd
```

```
df = pd.read_csv('/content/covid 19 CountryWise.csv')
```

```
df
```

	Country	Region	Total Cases	Total Cases per 100k pop	New Cases (7 days)	New Cases pe 100k pop ( days
0	United States of America	Americas	94152573	28444.658	416281	125.76
1	India	South-East Asia	44516479	3225.822	37843	2.74
2	Brazil	Americas	34544377	16251.633	53446	25.14
3	France	Europe	33766090	51916.394	150781	231.83
4	Germany	Europe	32604993	39204.380	203649	244.86
...	...	...	...	...	...	.
232	Pitcairn Islands	Western Pacific	4	8000.000	0	0.00
233	Democratic People's Republic of Korea	South-East Asia	0	0.000	0	0.00
234	Saint Helena	Africa	0	0.000	0	0.00
235	Tokelau	Western Pacific	0	0.000	0	0.00
236	Turkmenistan	Europe	0	0.000	0	0.00

```
237 rows × 12 columns
```

```
#to extract information from DataFrame
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 237 entries, 0 to 236
Data columns (total 12 columns):
#   Column                                Non-Null Count  Dtype
---  -
```

```

0    Country                237 non-null    object
1    Region                 237 non-null    object
2    Total Cases            237 non-null    int64
3    Total Cases per 100k pop 236 non-null    float64
4    New Cases (7 days)     237 non-null    int64
5    New Cases per 100k pop (7 days) 236 non-null    float64
6    New Cases (24 hours)   237 non-null    int64
7    Total Deaths          237 non-null    int64
8    Total Deaths per 100k pop 236 non-null    float64
9    New Deaths (7 days)   237 non-null    int64
10   New Deaths per 100k pop (7 days) 236 non-null    float64
11   New Deaths (24 hours) 237 non-null    int64
dtypes: float64(4), int64(6), object(2)
memory usage: 22.3+ KB

```

#to find the number of rows and columns, this DataFrame has 237 rows and 12 columns  
df.shape

```
(237, 12)
```

#to find total number of elements in the DataFrame  
df.size

```
2844
```

#to find the missing values and null values  
df.isnull().sum()

```

Country                0
Region                 0
Total Cases            0
Total Cases per 100k pop 1
New Cases (7 days)     0
New Cases per 100k pop (7 days) 1
New Cases (24 hours)   0
Total Deaths          0
Total Deaths per 100k pop 1
New Deaths (7 days)   0
New Deaths per 100k pop (7 days) 1
New Deaths (24 hours) 0
dtype: int64

```

# Visualization

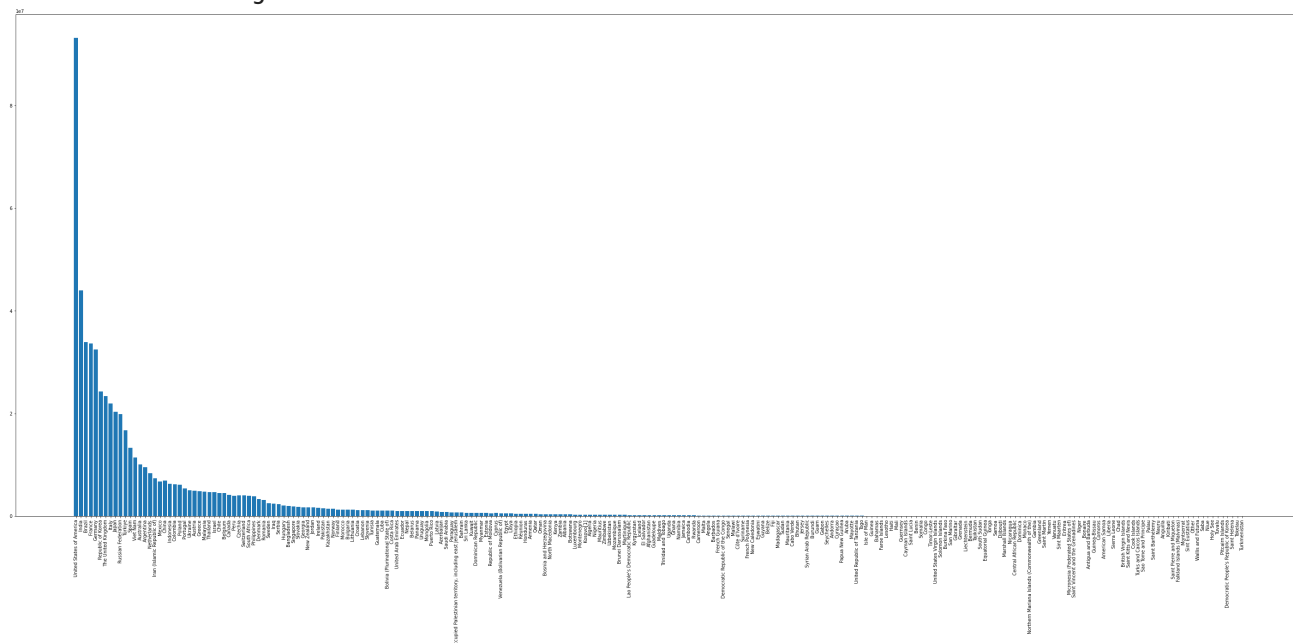
```

#1.to find the total number of people recovered in each country using visualization techni
import matplotlib.pyplot as plt
recovery=df['Total Cases']-df['Total Deaths']
plt.figure(figsize=(50,20))

```

```
plt.xticks(rotation='vertical')
plt.bar(df['Country'],recovery)
```

<BarContainer object of 237 artists>



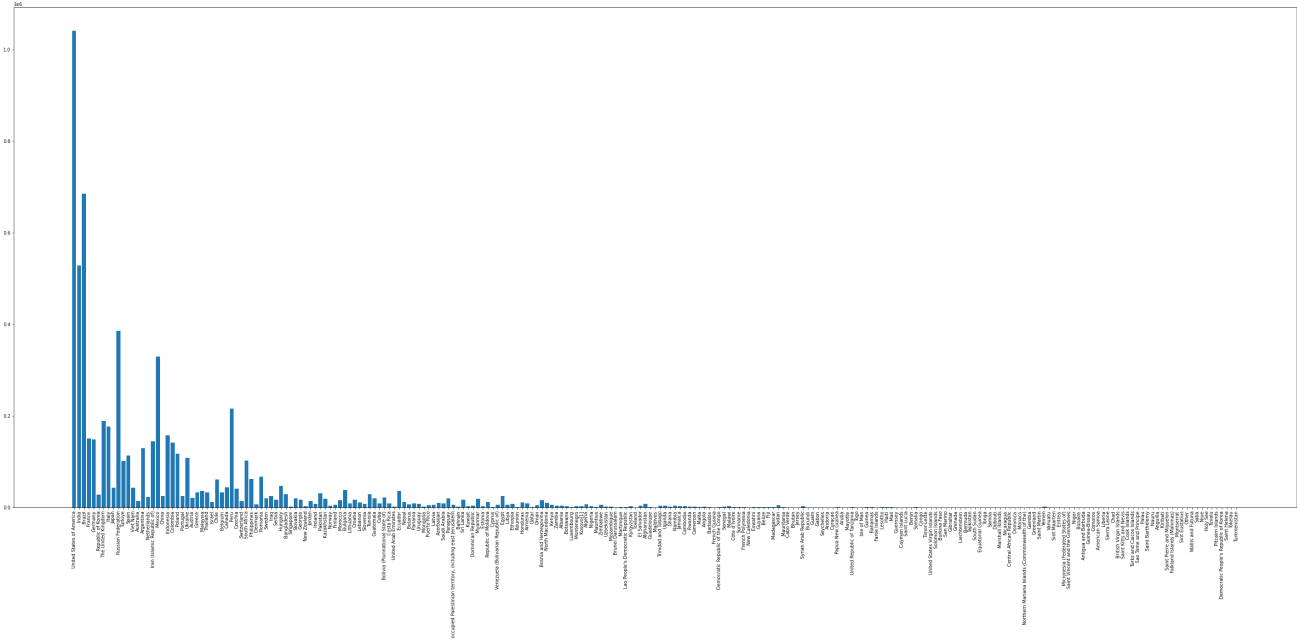
```
#2.To find maximum number of cases in a country
df['Total Cases'].max()
```

94152573

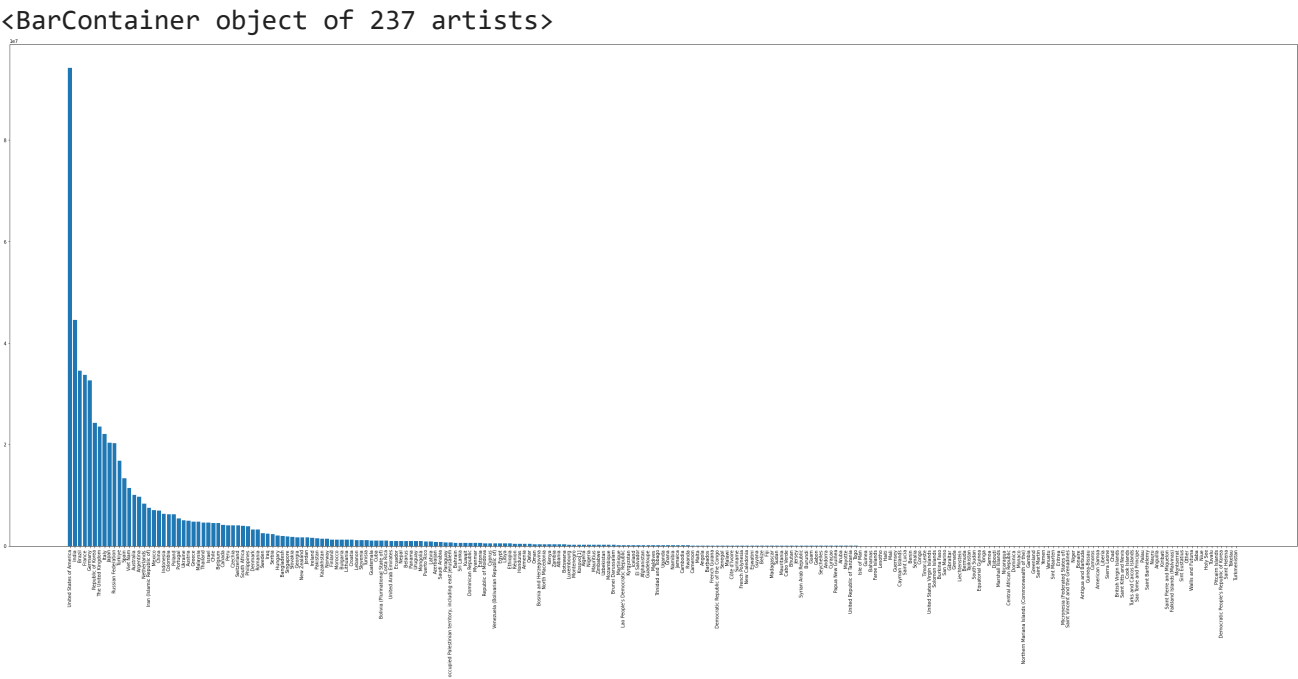
```
#3.To find the maximum death in all countries using visualization technique
plt.figure(figsize=(50,20))
```

```
plt.xticks(rotation='vertical')
plt.bar(df['Country'],df['Total Deaths'])
```

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```
#4.To find the total number of cases reported in all countries using visualization techniq
plt.figure(figsize=(50,20))
plt.xticks(rotation='vertical')
plt.bar(df['Country'],df['Total Cases'])
```



```
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```

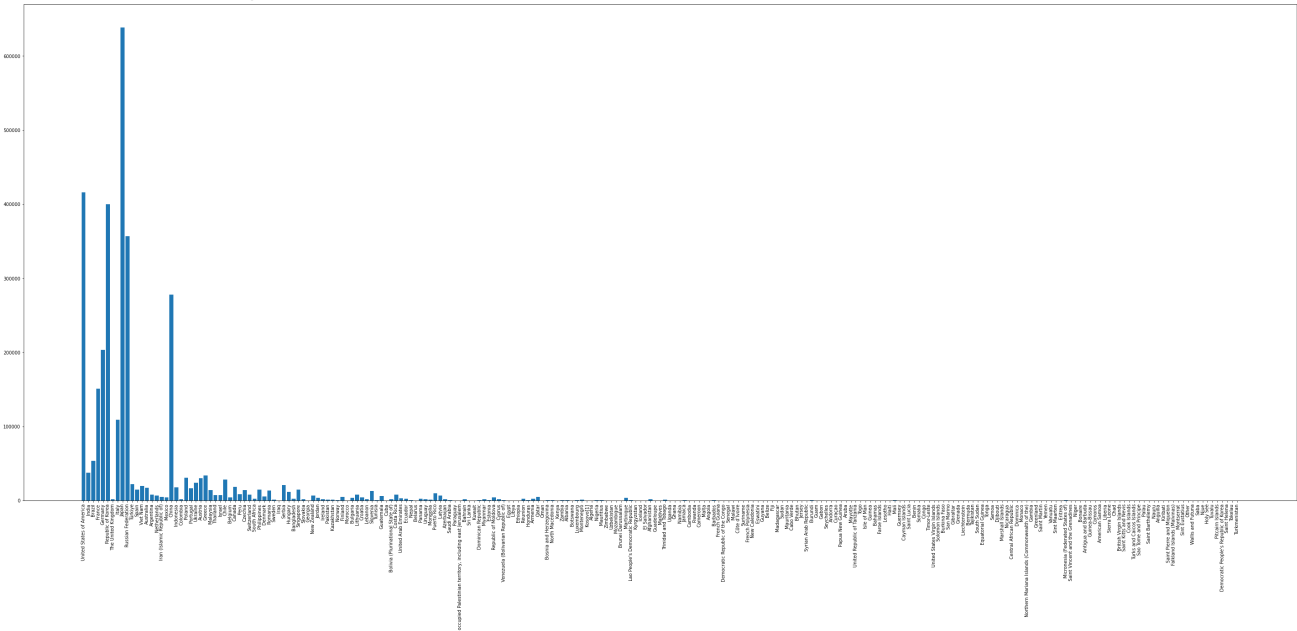


```
#6.To find maximum number of deaths in a country
df['Total Deaths'].max()
```

1040506

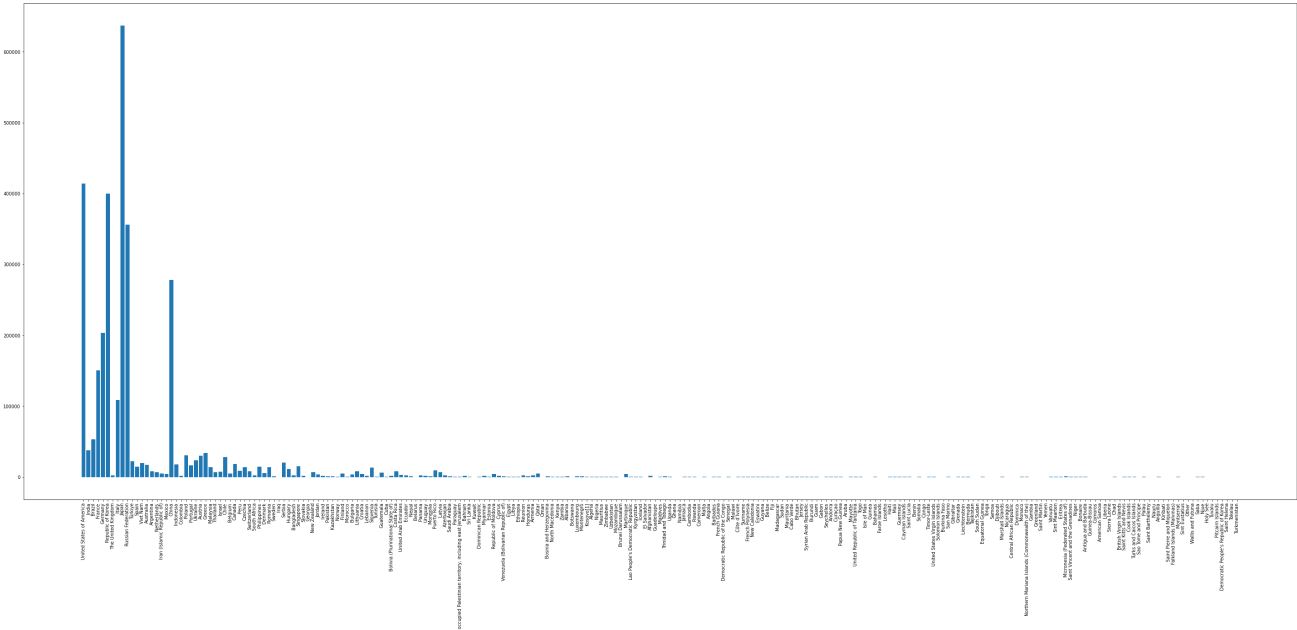
```
#7.To find the maximum number of new cases reported in a country in a week using visualiza
plt.figure(figsize=(50,20))
plt.xticks(rotation='vertical')
plt.bar(df['Country'],df['New Cases (7 days)'])
```

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```
#8.to find the total number of people recovered in each country in a week using visualizat
import matplotlib.pyplot as plt
recovery=df['New Cases (7 days)']-df['New Deaths (7 days)']
plt.figure(figsize=(50,20))
plt.xticks(rotation='vertical')
plt.bar(df['Country'],recovery)
```

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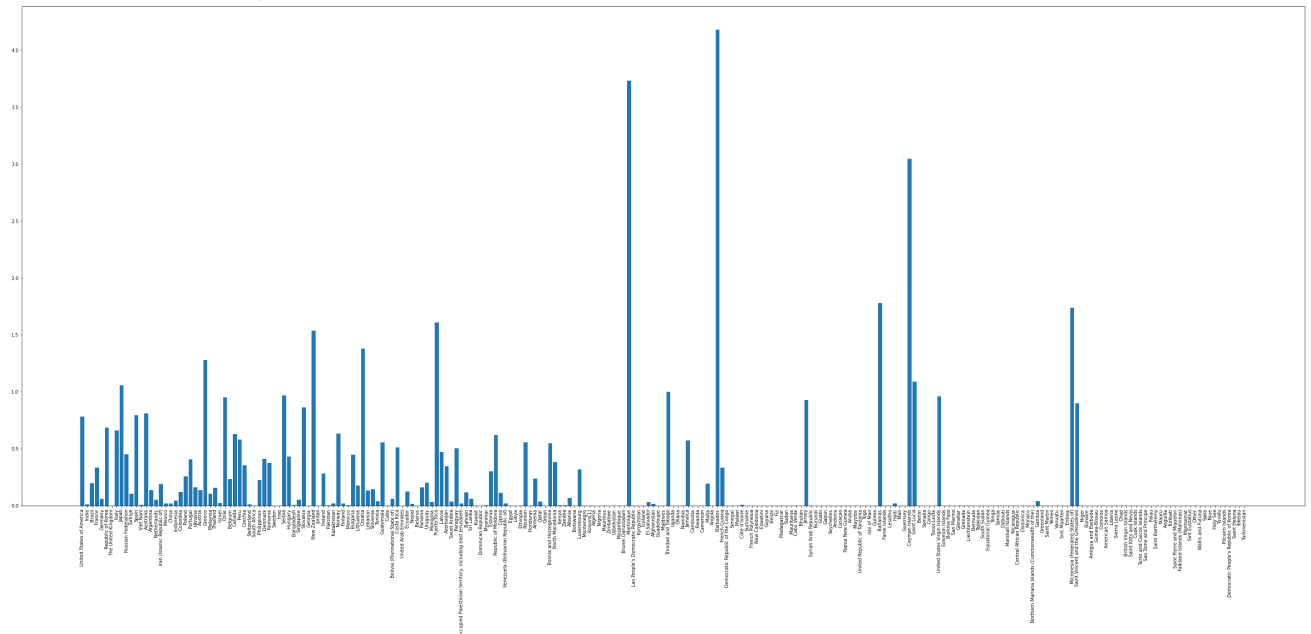


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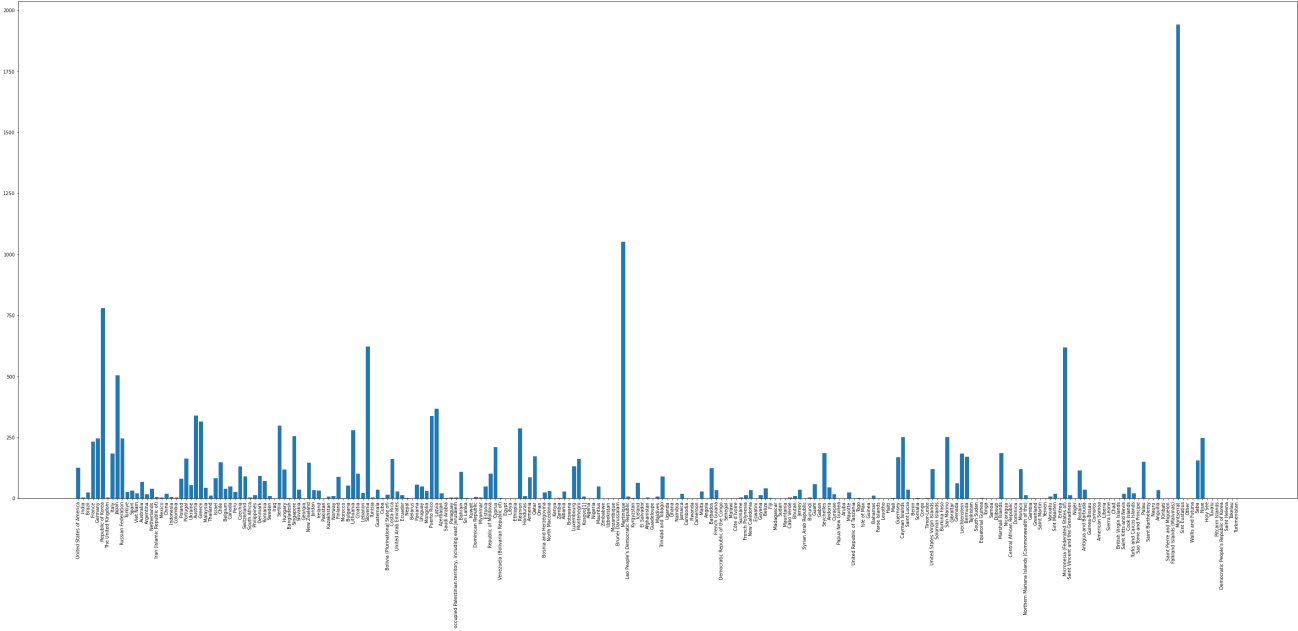
```
#10.To find the total number of deaths in 1 million reported in all countries in a week us
plt.figure(figsize=(50,20))
plt.xticks(rotation='vertical')
plt.bar(df['Country'],df['New Deaths per 100k pop (7 days)'])
```

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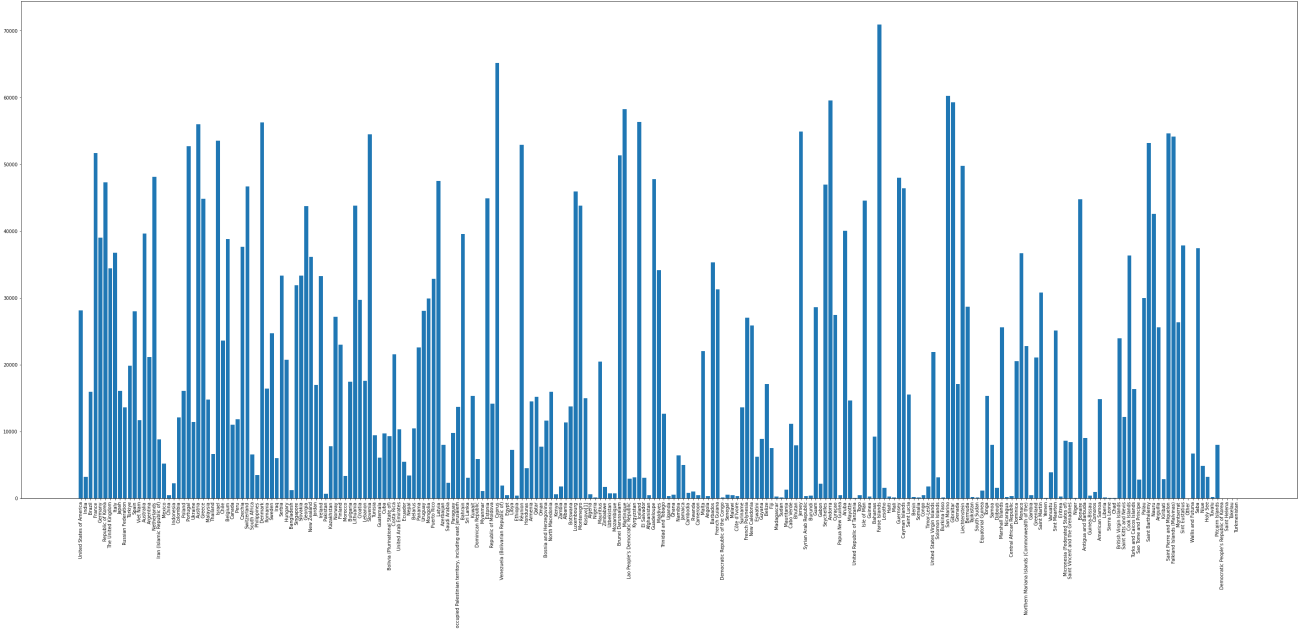
```
#11.To find the total number of cases in 1 million reported in all countries in a week usi
plt.figure(figsize=(50,20))
plt.xticks(rotation='vertical')
plt.bar(df['Country'],df['New Cases per 100k pop (7 days)'])
```

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```
#12.to find the total number of people recovered in each country in 1 milion population us
import matplotlib.pyplot as plt
recovery=df['Total Cases per 100k pop']-df['Total Deaths per 100k pop']
plt.figure(figsize=(50,20))
plt.xticks(rotation='vertical')
plt.bar(df['Country'],recovery)
```

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