Which countries are the most frequent sources of attack attempts?

After cleaning up the data, this question was relatively straightforward to answer, but very interesting nonetheless. My first move was to list out all of the countries within the dataset, in which Jupyter gave me the following:

I got this from a very simple command, being <code>df['country'].unique()</code> which looks into the dataframe 'df' where the 'country' column is with the '.unique()' signifying to display every value within the column. Although this is a nice command that gives us an idea of what we're working with, we could expand on this a bit more by using some more complex code.

The next line of code is <code>country_sizes = df.groupby('country').size()</code> which assigns the variable, <code>country_sizes</code> to the function <code>df.groupby('country').size()</code> which groups all the values specific to each country and assigns them to the country. Using our <code>country_sizes</code> variable, we can arrange it display in descending order by extending it to

country sizes.sort values (ascending = False) which displays the following:

		Japan	103	
country	11004	Vietnam	58	
Russia	11904	Kenya	19	
South Korea	3528	Morocco	12	
United States	3049	Germany	11	
India	2941	Canada	6	
Pakistan	2449	Hong Kong	5	
Singapore	2118	Netherlands	3	
Turkey	846	Brazil	2	
Moldova	729			
Ukraine	562	United Kingdom	2	
Egypt	520	Switzerland	1	
Indonesia	450	France	1	
Syria	187	Finland	1	
Chile	171	United Arab Emirates	1	
Thailand	164	Belgium	1	
China	156	dtype: int64		

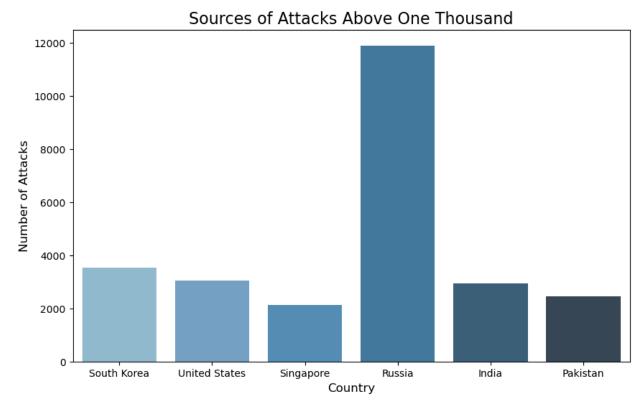
Now it is obvious to see that Russia has performed the most attacks, but maybe we could still gain some insight from a simple visualization of how much Russia is really in the lead by comparison to the other countries with values over 1000.

To make this, I first put the six highest countries into an arraylist called <code>selected_countries</code> and made a duplicate dataframe called <code>Q1 d</code> which contains the line

df[df['country'].isin(selected_countries)], which only ports over the information from the countries listed in the array created before. Now, to make the graph we enter the following:

```
plt.figure(figsize=(10, 6))
sns.countplot(x = 'country', data=Q1_df, palette = 'Blues_d')
plt.title('Sources of Attacks Above One Thousand', fontsize=16)
plt.xlabel('Country', fontsize=12)
plt.ylabel('Number of Attacks', fontsize=12)
```

With that, we get the following visualization of our information:



We can really see how much more attacks came out of Russia compared to its competition. Even with South Korea in second place they are barely under the 4,000 mark, looking like they are competing with the United States. Singapore was the lowest, but is easily over half the size of South Korea which really shows how close they all are to each other.

I know this analysis was very basic and straightforward but I really want to take things slowly and gain more and more competence over time, as I can tell this area of study can get very complicated despite being fairly simple at the moment. Future questions will be more complex and in depth.