2016 Olympics

Create a new maven project: 2016OlympicsMedals and add necessary libraries. Automate the following scenarios as a team. *It is up to you* how you design the classes and methods.
Push your project to GitHub. Do not check in the **target** folder and the **test-output** folder.

Test Case 1: SORT TEST

1. Go to website https://en.wikipedia.org/wiki/2016_Summer_Olympics#Medal_table.
2. Verify that by default the Medal table is sorted by rank. To do that you need to capture all the cells in the Rank column and check if they are in ascending order (highlighted in the picture). Use TestNG assertions.

Rank ⬍	NOC ⬍	Gold ⬍	Silver ⬍	Bronze ⬍	Total ⬍
1	United States (USA)	46	37	38	121
2	Great Britain (GBR)	27	23	17	67
3	China (CHN)	26	18	26	70
4	Russia (RUS)	19	17	19	55
5	Germany (GER)	17	10	15	42
6	Japan (JPN)	12	8	21	41
7	France (FRA)	10	18	14	42
8	South Korea (KOR)	9	3	9	21
9	Italy (ITA)	8	12	8	28
10	Australia (AUS)	8	11	10	29
11–86	*Remaining NOCs*	125	149	182	456
Total (86 NOCs)		**307**	**306**	**359**	**972**

3. Click link NOC.
4. Now verify that the table is now sorted by the country names. To do that you need to capture all the names in the NOC column and check if they are in ascending/alphabetical order (highlighted in the picture). Use TestNG assertions.

Rank ⬍	NOC ▲	Gold ⬍	Silver ⬍	Bronze ⬍	Total ⬍
10	Australia (AUS)	8	11	10	29
3	China (CHN)	26	18	26	70
7	France (FRA)	10	18	14	42
5	Germany (GER)	17	10	15	42
2	Great Britain (GBR)	27	23	17	67
9	Italy (ITA)	8	12	8	28
6	Japan (JPN)	12	8	21	41
4	Russia (RUS)	19	17	19	55
8	South Korea (KOR)	9	3	9	21
1	United States (USA)	46	37	38	121
11–86	Remaining NOCs	125	149	182	456
Total (86 NOCs)		307	306	359	972

5. Verify that Rank column is not in ascending order anymore. Use TestNG assertions.

Notes:
Certain rows should not be included in the calculation. Ignore the rows highlighted red in the picture.
Countries names are actually links.

2016 Summer Olympics medal table

Rank ⬍	NOC ▲	Gold ⬍	Silver ⬍	Bronze ⬍	Total ⬍
10	Australia (AUS)	8	11	10	29
3	China (CHN)	26	18	26	70
7	France (FRA)	10	18	14	42
5	Germany (GER)	17	10	15	42
2	Great Britain (GBR)	27	23	17	67
9	Italy (ITA)	8	12	8	28
6	Japan (JPN)	12	8	21	41
4	Russia (RUS)	19	17	19	55
8	South Korea (KOR)	9	3	9	21
1	United States (USA)	46	37	38	121
11–86	Remaining NOCs	125	149	182	456
Total (86 NOCs)		307	306	359	972

Test Case 2: THE MOST
  1. Go to website https://en.wikipedia.org/wiki/2016_Summer_Olympics.
  2. Write a method that returns the name of the country with the most number of gold medals.
  3. Write a method that returns the name of the country with the most number of silver medals.
  4. Write a method that returns the name of the country with the most number of bronze medals.

5. Write a method that returns the name of the country with the most number of medals.
6. Write TestNG test for your methods.

Test Case 3: COUNTRY BY MEDAL
1. Go to website https://en.wikipedia.org/wiki/2016_Summer_Olympics.
2. Write a method that returns a list of countries whose silver medal count is equal to 18.
3. Write TestNG test for your method.

Test Case 4: GET INDEX
1. Go to website https://en.wikipedia.org/wiki/2016_Summer_Olympics.
2. Write a method that takes country name and returns the row and column number. You decide the datatype of the return.
3. Write TestNG test for your method (use Japan as test input).

Test Case 5: GET SUM
1. Go to website https://en.wikipedia.org/wiki/2016_Summer_Olympics.
2. Write a method that returns a list of two countries whose sum of bronze medals is 18.
3. Write TestNG test for your method.