

When the number of iterations not fixed then go with while loop.

We dont know when the country will come, first page or second page or third page or so on.

Selectors hub website.

Click ukraine.

Single selection.

While will take **true** as argument, we start with infinite loop and when we get the desired value, we stop the loop. We cannot use driver.findelement because it will give no such element exception when the data is not found in that page. We want to let users know that there is no data for the country when there is no match. Use find elements to avoid unnecessary exceptions.

Use find elements.

Check size is greater than zero, if not proceed ahead by clicking next page, because in the first page the country is not there.

If the country is available on the page select the checkbox next to it.

Else if the country is not available click on the pagination.

Click checkbox next to denmark.

The screenshot shows a web browser displaying the SelectorHub PracticePage. The page title is "System Distribution Details". Below the title is a table with columns: OS, Browser, City, and Country. The table contains 8 rows of data. At the bottom of the table, there is a dropdown menu for "entries per page" set to 10, and a search bar. Below the table is a navigation bar with links: Elements, Console, Sources, Recorder, Network, Performance, AI assistance, Memory, Application, Privacy and security, and Help?.

The "Elements" tab is selected, showing the DOM structure of the table. The DOM tree is as follows:

```

<tbody class="row-striping row-hover">
  <tr class="row-2">
    <td class="column-1">
      <input type="checkbox"> == $0
    </td>
    <td class="column-2">windows</td>
    <td class="column-3">chrome</td>
    <td class="column-4">Hvidovre</td>
    <td class="column-5">Denmark</td>
  </tr>

```

The status bar at the bottom of the browser window shows the URL: /td[text()='Denmark']/preceding-sibling::td/input[@type='checkbox'].

The screenshot shows an IDE interface with two files open: "WebTablePagination.java" and "CalendarHandling.java". The "WebTablePagination.java" file contains the following code:

```

1 package seleniumsessions;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 public class WebTablePagination {
8
9     static WebDriver driver;
10
11    public static void main(String[] args) throws InterruptedException {
12
13        driver = new ChromeDriver();
14        driver.get("https://selectorhub.com/xpath-practice-page/");
15
16        Thread.sleep(5000);
17    }
}

```

Locator for the pagination-

```

18
19 // single selection:
20 while (true) {
21     if (driver.findElements(By.xpath("//td[text()='Ukraine']")).size() > 0) {
22         selectCountry("Ukraine");
23         break;
24     } else {
25         // pagination logic:
26         // click on next
27         WebElement next = driver.findElement(By.cssSelector("button.next"));
28         next.click();
29         Thread.sleep(1000);
30     }
31 }
32

```

Write static method to click on country name based on what we give-

```

28     public static void selectCountry(String countryName) {
29         driver.findElement(By.xpath("//td[text()='"+countryName+"']/preceding-sibling::td/input[@type='checkbox']")).click();
30     }
31

```

	OS	Browser	City	Country
<input type="checkbox"/>	windows	chrome	Samsun	Canada
<input type="checkbox"/>	windows	Edge	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input checked="" type="checkbox"/>	windows	chrome	Samsun	Ukraine
<input type="checkbox"/>	windows	chrome	Samsun	Hong Kong
<input type="checkbox"/>	windows	chrome	Samsun	Russia
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	mac	chrome	Samsun	India

Showing 21 to 30 of 99 entries

16.00 - stale element wont come here only.

Change country name to denmark-

```

18
19      // single selection:
20      while (true) {
21          if (driver.findElements(By.xpath("//td[text()='Denmark']")).size() > 0) {
22              selectCountry("Denmark");
23              break;
24          } else {
25              // pagination logic:
26              // click on next
27              WebElement next = driver.findElement(By.cssSelector("button.next"));
28              next.click();
29              Thread.sleep(1000);
30          }
31      }
32  }
33
34 }
```

System Distribution Details

	OS	Browser	City	Country
<input checked="" type="checkbox"/>	windows	chrome	Hvidovre	Denmark
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	mac	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	mac	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome		United States

Showing 1 to 10 of 99 entries

Added line 22-
For printing in console.

```

19 // single selection:
20 while (true) {
21     if (driver.findElements(By.xpath("//td[text()='Denmark']")).size() > 0) {
22         System.out.println("country is found");
23         selectCountry("Denmark");
    }
}
```

Pass invalid country name-
It wont stop after last page also.

```

18
19     // single selection:
20     while (true) {
21         if (driver.findElements(By.xpath("//td[text()='Naveen']")).size() > 0) {
22             System.out.println("country is found");
23             selectCountry("Naveen");
24             break;
25         } else {
26             // pagination logic:
27             // click on next
28             WebElement next = driver.findElement(By.cssSelector("button.next"));
29             next.click();
30             Thread.sleep(1000);

```

It will not be able to click on next button.

OS	Browser	City	Country
windows	chrome	Samsun	India
mac	chrome	Samsun	Russia
windows	chrome	Samsun	India
windows	chrome	Samsun	India
windows	chrome	Samsun	India
windows	chrome	Samsun	India
windows	chrome	Samsun	India
windows	chrome	Samsun	India
mac	firefox	Samsun	India

Program stuck on infinite loop without error-

Added logic when country element not found-

```
18
19     // single selection:
20     while (true) {
21         if (driver.findElements(By.xpath("//td[text()='Naveen']")).size() > 0) {
22             System.out.println("country is found");
23             selectCountry("Naveen");
24             break;
25         } else {
26             // pagination logic:
27             // click on next
28             WebElement next = driver.findElement(By.cssSelector("button.next"));
29
30             if (next.getDomAttribute("class").contains("disabled")) {
31                 System.out.println("pagination is over...country is not found...");
32                 break;
33             }
34
35             next.click();
36             Thread.sleep(1000);
37         }
38     }
39 }
40 }
```

The screenshot shows a Chrome browser window with the title "Xpath Practice Page | Selectorshub". The URL in the address bar is "selectorshub.com/xpath-practice-page/". The page content includes a header with the Selectorshub logo and navigation links for Products, Pro Plans, Courses, PracticePage (which is underlined in orange), Resources, Help?, and a search icon. Below the header, there is a message: "Click here to practice iframe and nested iframe scenarios." A large section titled "SYSTEM DISTRIBUTION DETAILS" is present, with a sub-section titled "System Distribution Details". It features a table with 10 entries per page, showing data for OS, Browser, City, and Country. The table has columns for OS, Browser, City, and Country. The data rows are as follows:

OS	Browser	City	Country
windows	chrome	Samsun	India
mac	chrome	Samsun	Russia
windows	chrome	Samsun	India
windows	chrome	Samsun	India
windows	chrome	Samsun	India
windows	chrome	Samsun	India
windows	chrome	Samsun	India
windows	firefox	Samsun	India
mac	firefox	Samsun	India

At the bottom of the table, it says "Showing 91 to 99 of 99 entries" and has a page navigation bar with buttons for 1, ..., 6, 7, 8, 9, and 10.

The screenshot shows the Eclipse IDE interface with the 'Results of running method GoRestAPITest' view open. The output window displays the following text:

```
<terminated> WebTablePagination (6) [Java Application] /Users/naveenautomationlabs/.p2/pool/plugins/org.eclipse.justj.openjdk.Apr 08, 2025 8:58:03 AM org.openqa.selenium.devtools.Cdp WARNING: Unable to find an exact match for CDP version 1 pagination is over...country is not found...
```

Multi selection of same country-
Pass india but we have multiple india-

```
18      // single selection:
19      while (true) {
20          if (driver.findElements(By.xpath("//td[text()='India']")).size() > 0) {
21              System.out.println("country is found");
22              selectCountry("India");
23              break;
24          } else {
25              // pagination logic:
26      }
```

First value of india got selected.

The screenshot shows a Chrome browser window displaying a table from selectorhub.com/xpath-practice-page/. The table has columns: OS, Browser, City, and Country. The data is as follows:

OS	Browser	City	Country
windows	chrome	Hvidovre	Denmark
windows	chrome	Samsun	India
mac	chrome	Samsun	India
windows	chrome	Samsun	India
windows	chrome	Samsun	India
mac	chrome	Samsun	India
windows	chrome	Samsun	India
windows	chrome	Samsun	India
windows	chrome	Samsun	United States

Showing 1 to 10 of 99 entries

```

Window Help
Dec2024SeleniumSessions/src/main/java/seleniumsessions/WebTab
Console Problems Javadoc
<terminated> WebTablePagination (8) [Java Application]
Apr 08, 2025 9:00:50
WARNING: Unable to find country is found
rows Interrupted

```

Select all indias-

	OS	Browser	City	Country
<input type="checkbox"/>	windows	chrome	Hvidovre	Denmark
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	mac	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	mac	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	United States	

Showing 1 to 10 of 99 entries


```

<input type="checkbox"> == $0
</td>
<td class="column-2">windows</td>
<td class="column-3">chrome</td>
<td class="column-4">Samsun</td>
<td class="column-5">India</td>
</tr>
<tr class="row-11"> ... </tr>
</tbody>
<tfoot></tfoot>
</table>
</div>

```

iter div.dt-layou... /td[txt()=='India']/preceding-sibling::td/input[@type='checkbox']

Create separate method for multi selection.
Get all indias in that page.
For loop and click one by one.
Then go to next page and repeat.

```
57+     public static void selectMultipleCountry(String countryName) {
58+         List<WebElement> countryList = driver.findElements(By.xpath("//td[text()='"+countryName+"']/preceding-sibling::td/input[@type='checkbox']"));
59+         for(WebElement e : countryList) {
60+             e.click();
61+         }
62+     }
```

We cannot use else block to go to next page.

Because in first page if india comes ten times then while loop will keep checking and unchecking the checkbox from first page only.

So we select all indias from the page then click on next without using else.

Country is found will be printed once per page and india will be selected on all pages till the next arrow is disabled.

```
21      // multi selection:
22      while (true) {
23          if (driver.findElements(By.xpath("//td[text()='India']")).size() > 0) {
24              System.out.println("country is found");
25              selectMultipleCountry("India");
26          }
27
28          // pagination logic: click next
29          WebElement next = driver.findElement(By.cssSelector("button.next"));
30
31          if (next.getDomAttribute("class").contains("disabled")) {
32              System.out.println("pagination is over...");
33              break;
34          }
35
36          next.click();
37          Thread.sleep(1000);
38      }
```

The screenshot shows a web browser window with the title "workspace1 - Dec2024SeleniumSessions/src/main/java/seleniumsessions/WebTablePagination.java - Eclipse IDE". The URL in the address bar is "selectorshub.com>xpath-practice-page/". A message at the top of the page reads "Chrome is being controlled by automated test software.". The page displays a table with the following columns: OS, Browser, City, and Country. The table has 91 rows, with the first few rows shown below:

	OS	Browser	City	Country
<input checked="" type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	mac	chrome	Samsun	Russia
<input checked="" type="checkbox"/>	windows	chrome	Samsun	India
<input checked="" type="checkbox"/>	windows	chrome	Samsun	India
<input checked="" type="checkbox"/>	windows	chrome	Samsun	India
<input checked="" type="checkbox"/>	windows	chrome	Samsun	India
<input checked="" type="checkbox"/>	windows	chrome	Samsun	India
<input checked="" type="checkbox"/>	mac	firefox	Samsun	India

At the bottom of the table, it says "Showing 91 to 99 of 99 entries" and has a page navigation bar with buttons for 1, ..., 6, 7, 8, 9, 10, and >.

The screenshot shows the Eclipse IDE interface with the file "/src/main/java/seleniumsessions/WebTablePagination.java" open. The code contains several print statements and a final message indicating the end of pagination:

```
<terminated> WebTablePagination (8) [Java Application] /Users/na
Apr 08, 2025 9:11:36 AM org.openqa.selenium.remote.HttpCommandExecutor$Response process
WARNING: Unable to find an exact
country is found
:is
country is found
country is found
country is found
;
country is found
;
) pagination is over...
```

Change to usa-

```

20
21     // multi selection:
22     while (true) {
23         if (driver.findElements(By.xpath("//td[text()='United States']")).size() > 0) {
24             System.out.println("country is found");
25             selectMultipleCountry("United States");
26         }
27
28         // pagination logic: click next

```

	OS	Browser	City	Country
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input checked="" type="checkbox"/>	windows	chrome	Samsun	United States
<input type="checkbox"/>	windows	chrome	Samsun	Russia
<input checked="" type="checkbox"/>	windows	chrome	Samsun	United States
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	mac	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India
<input type="checkbox"/>	windows	chrome	Samsun	India

Showing 51 to 60 of 99 entries

```

<terminated> WebTablePagination (8) [Java Application]
Apr 08, 2025 9:13:25 AM org.openqa.selenium.remote.http.netty.NettyHttpHandler
WARNING: Unable to find an entry for country is found
country is found
; pagination is over...

```

Enter invalid country name-

```

20
21     // multi selection:
22     while (true) {
23         if (driver.findElements(By.xpath("//td[text()='Naveen']")).size() > 0) {
24             System.out.println("country is found");
25             selectMultipleCountry("Naveen");
26         }
27
28         // pagination logic: click next
29         WebElement next = driver.findElement(By.cssSelector("button.next"));
30

```

Increase sleep-

Because before we scroll down we get no such element exception. 45.00

```

15
16     driver = new ChromeDriver();
17     driver.get("https://selectorshub.com/xpath-practice-page/");
18
19     Thread.sleep(5000);
20

```

	OS	Browser	City	Country
1	windows	chrome	Samsun	India
2	mac	chrome	Samsun	Russia
3	windows	chrome	Samsun	India
4	windows	chrome	Samsun	India
5	windows	chrome	Samsun	India
6	windows	chrome	Samsun	India
7	windows	chrome	Samsun	India
8	windows	chrome	Samsun	India
9	mac	firefox	Samsun	India
10				

Showing 91 to 99 of 99 entries

The screenshot shows the Eclipse IDE interface with the 'Console' tab selected. The output window displays the following text:

```
<terminated> WebTablePagination (8) [Java Application]
Apr 08, 2025 9:15:32 AM org.openqa.selenium.support.ui.WebDriverWait
WARNING: Unable to find an element using locator: By.xpath("//td[text()='India']")
The pagination is over...
```

Home work-
How to select two countries at a time.

Homework-
Select same country multiple times only from first page.
Write break after line 25 and done.

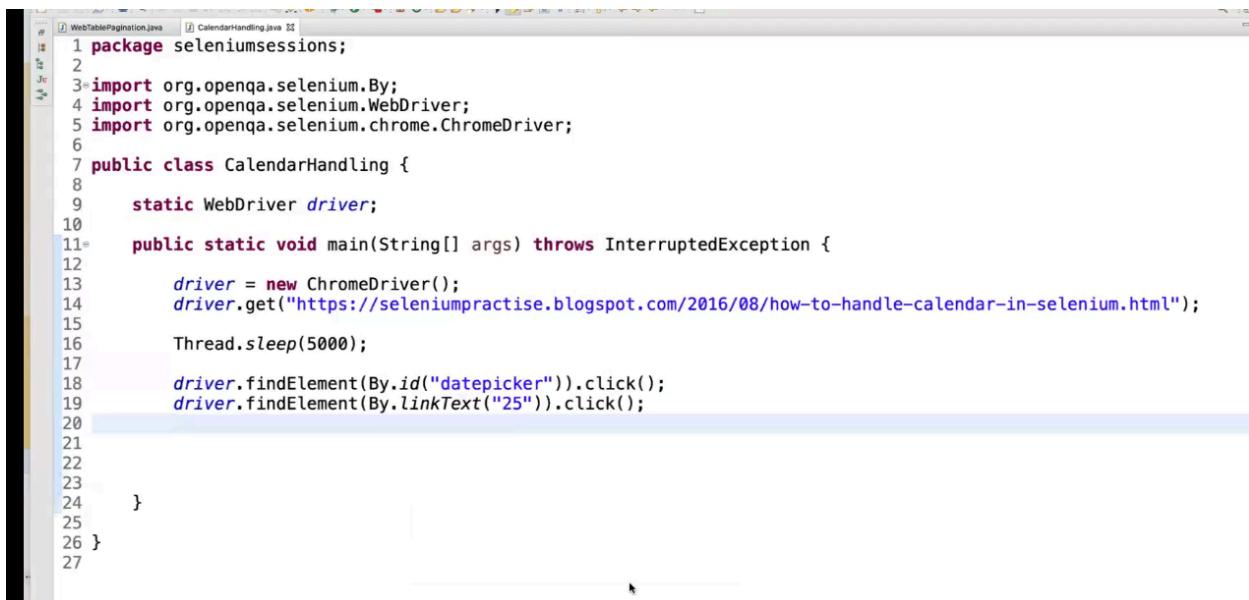
```
20
21      // multi selection:
22      while (true) {
23          if (driver.findElements(By.xpath("//td[text()='Naveen']")).size() > 0) {
24              System.out.println("country is found");
25              selectMultipleCountry("Naveen");
26          }
27      }
28
29      // pagination logic: click next
30      WebElement next = driver.findElement(By.cssSelector("button.next"));
31
32      if (next.getDomAttribute("class").contains("disabled")) {
33          System.out.println("pagination is over...");
34          break;
35      }
36
37      next.click();
38      Thread.sleep(1000);
39 }
```

It will select multiple india from page 1 and break. If india not in page 1 but in page 2 or page 3 then the

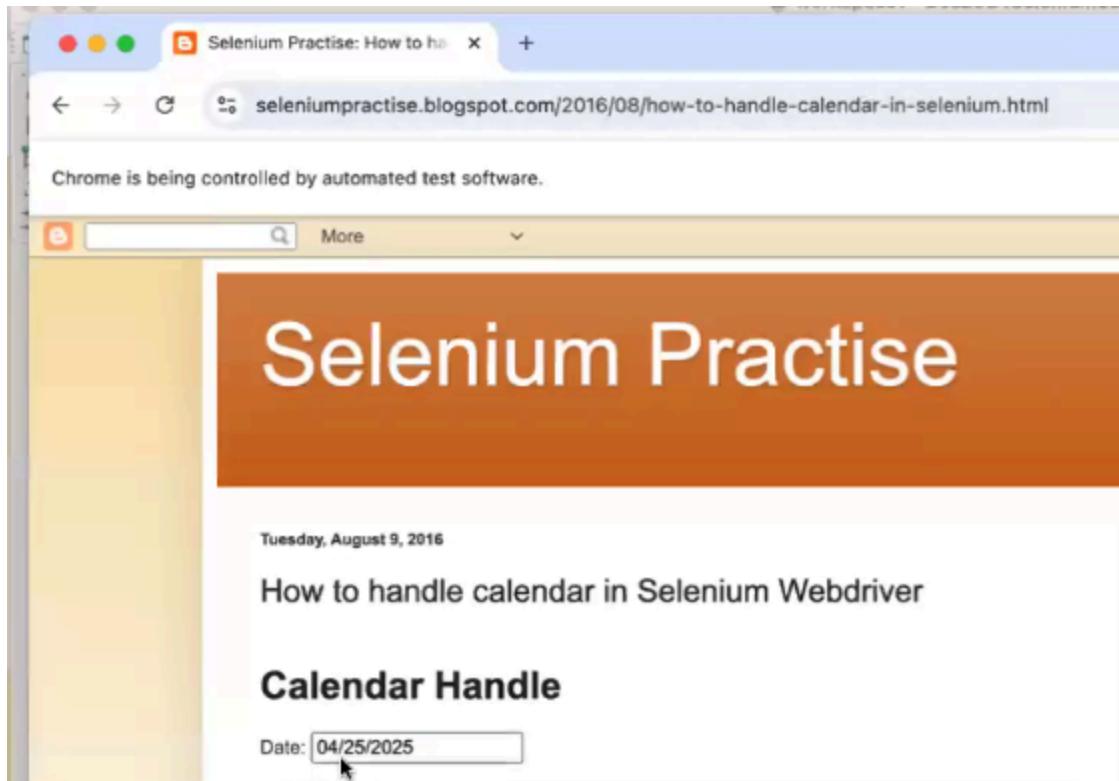
pagination will work, go to that page and once all india clicked then program comes out of loop on that page.

Calendar-

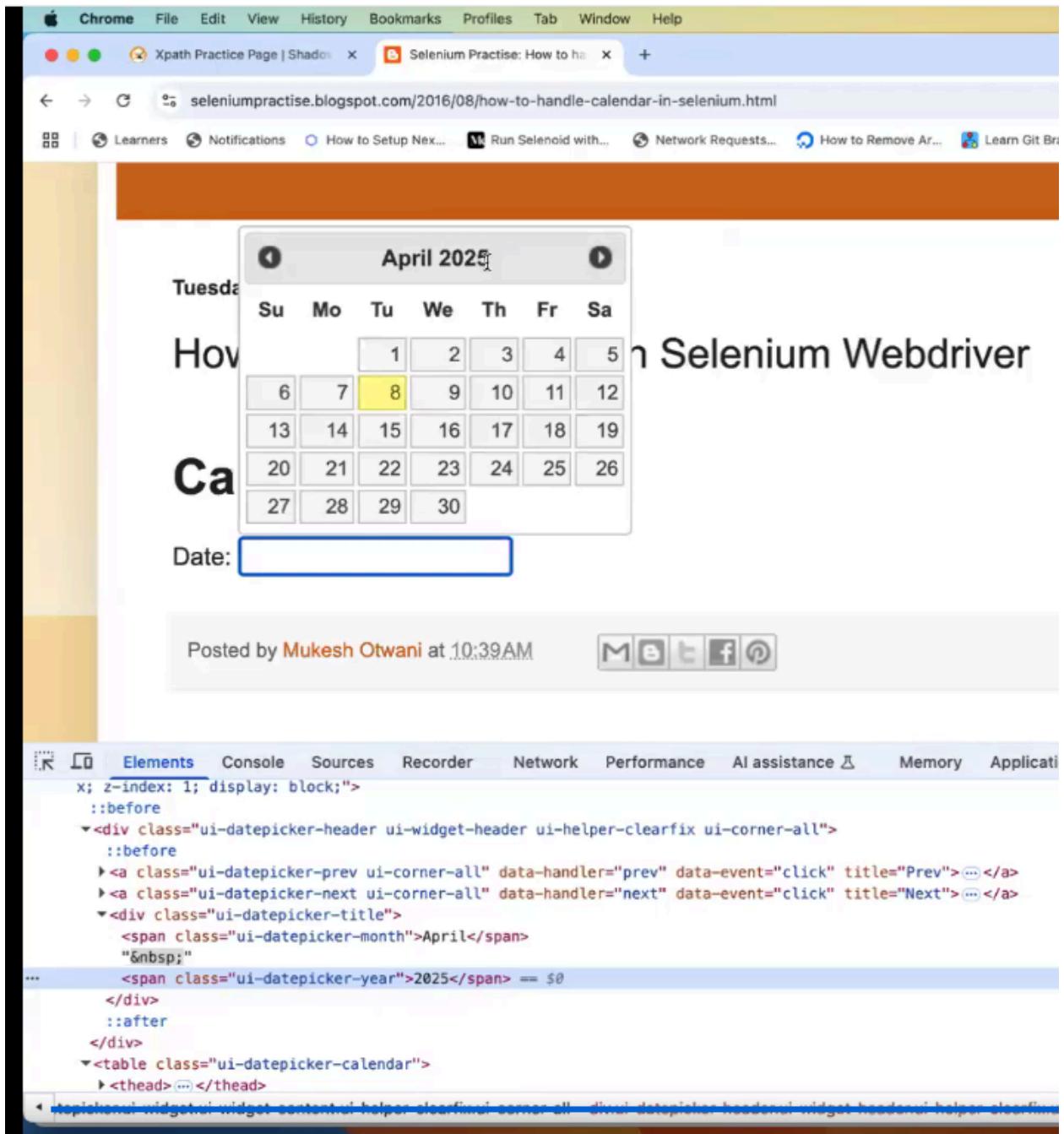
Select current month and day is 25.



```
1 package seleniumsessions;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.chrome.ChromeDriver;
6
7 public class CalendarHandling {
8
9     static WebDriver driver;
10
11    public static void main(String[] args) throws InterruptedException {
12
13        driver = new ChromeDriver();
14        driver.get("https://seleniumpractise.blogspot.com/2016/08/how-to-handle-calendar-in-selenium.html");
15
16        Thread.sleep(5000);
17
18        driver.findElement(By.id("datepicker")).click();
19        driver.findElement(By.linkText("25")).click();
20
21
22
23
24    }
25
26 }
```



Apply get text on div and you get text from all child and grandchild and itself- 53.00



The screenshot shows a date picker modal for April 2025. The modal has a header "April 2025" with previous and next month buttons. The days of the week are labeled Su, Mo, Tu, We, Th, Fr, Sa. The dates from 1 to 30 are displayed in a grid. The date "8" is highlighted with a yellow background, indicating it is selected. Below the modal, there is a text input field with the placeholder "Date:". At the bottom of the page, there is a post by Mukesh Otwani at 10:39 AM, followed by social sharing icons. The bottom portion of the screenshot shows the Chrome DevTools Elements tab, displaying the HTML structure of the date picker component.

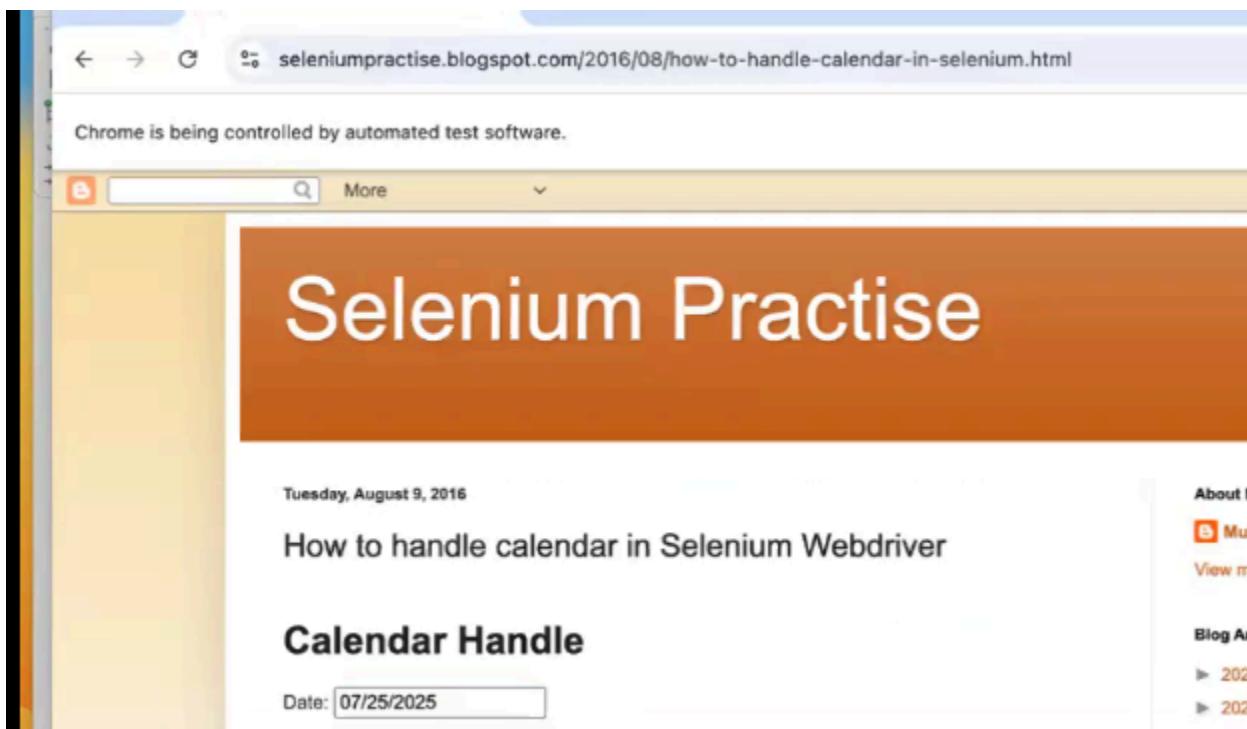
```
x; z-index: 1; display: block;">::before<div class="ui-datepicker-header ui-widget-header ui-helper-clearfix ui-corner-all">::before<a class="ui-datepicker-prev ui-corner-all" data-handler="prev" data-event="click" title="Prev"><...></a><a class="ui-datepicker-next ui-corner-all" data-handler="next" data-event="click" title="Next"><...></a><div class="ui-datepicker-title"><span class="ui-datepicker-month">April</span>"&nbsp;"<span class="ui-datepicker-year">2025</span> = 50</div>::after</div><table class="ui-datepicker-calendar"><thead><tr><th>Su</th><th>Mo</th><th>Tu</th><th>We</th><th>Th</th><th>Fr</th><th>Sa</th></tr></thead><tbody><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr><tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr><tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr><tr><td>29</td><td>30</td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>
```

When the month and year doesn't match click next.
In first step, get the current month and year. Print it.

```

17     Thread.sleep(2000);
18     driver.findElement(By.id("datepicker")).click();
19     futureDate("July 2025", "25");
20 //     driver.findElement(By.linkText("25")).click();
21 }
22
23
24
25
26
27 public static void futureDate(String expMonthYear, String day) {
28
29     String actMonthYear = driver.findElement(By.className("ui-datepicker-title")).getText();
30     System.out.println(actMonthYear); //April 2025
31
32     while(!actMonthYear.equalsIgnoreCase(expMonthYear)) {//July 2025 == July 2025
33         //click on next icon:
34         driver.findElement(By.xpath("//span[text()='Next']")).click();
35         actMonthYear = driver.findElement(By.className("ui-datepicker-title")).getText(); //July 2025
36     }
37
38     driver.findElement(By.linkText(day)).click();
39
40 }
41

```

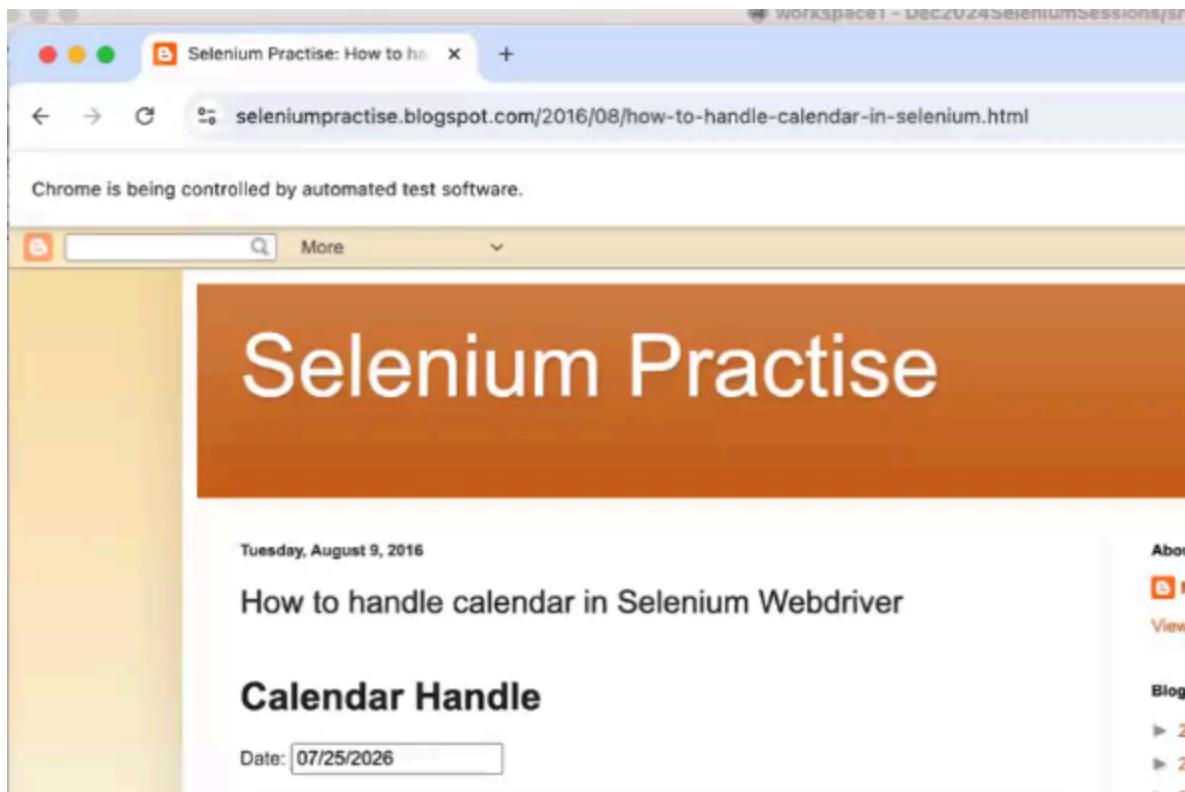


Updated sleep-
Changed line 20 to another month year.

```

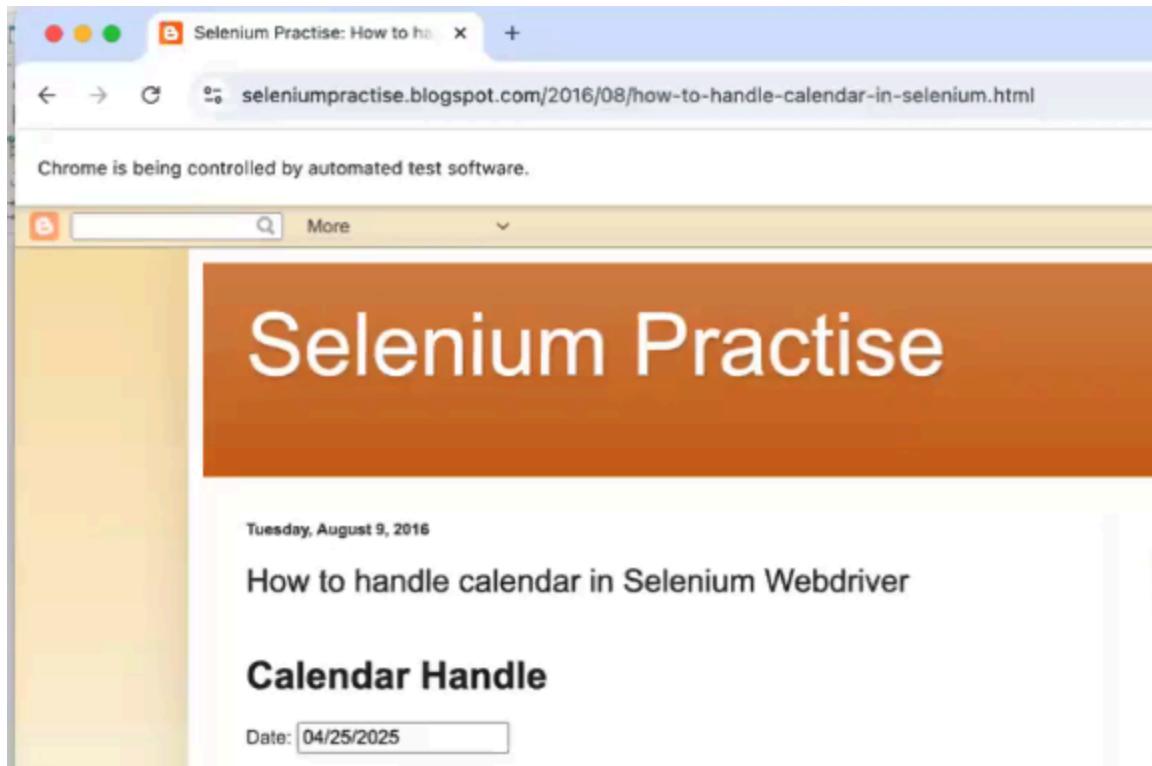
16     Thread.sleep(2000);
17
18     driver.findElement(By.id("datepicker")).click();
19
20     futureDate("July 2026", "25");
21
22 //     driver.findElement(By.linkText("25")).click();
23

```



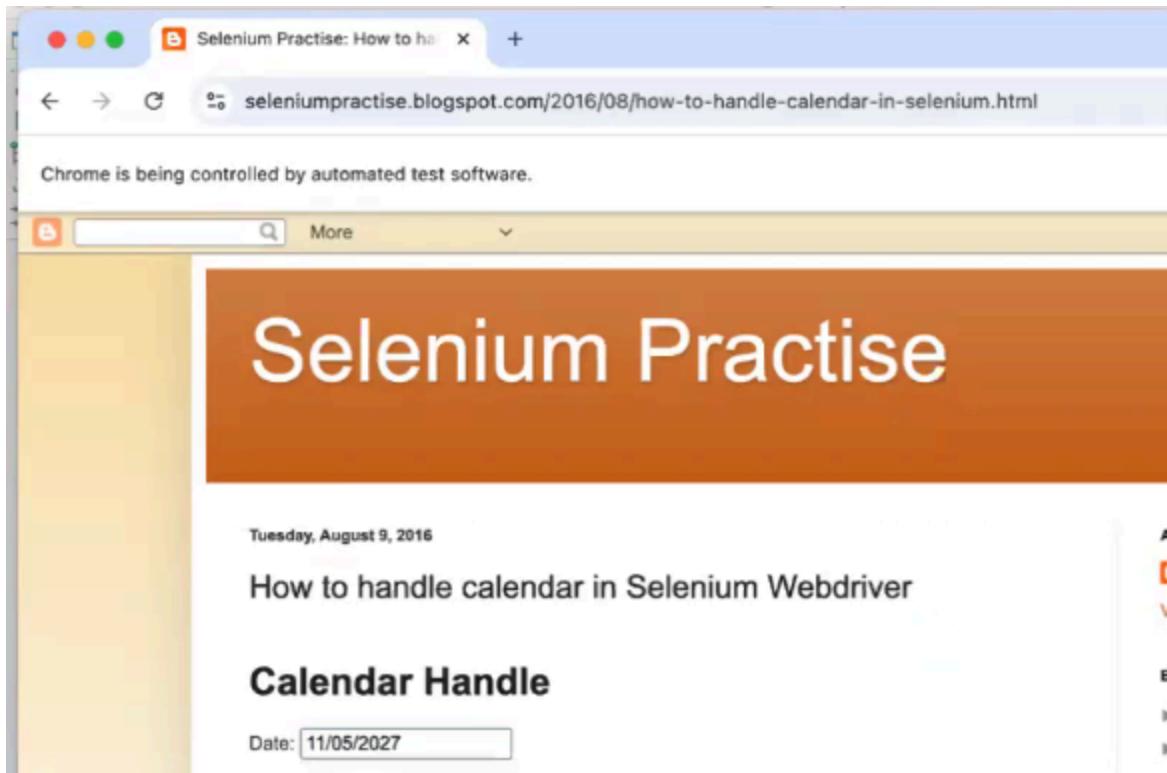
Change to current month year-

```
19
20     futureDate("April 2025", "25");
21
22 //     driver.findElement(By.linkText("25")).click();
23
24 }
```



Change to another month year-

```
19
20     futureDate("November 2027", "5");
21
22 //      driver.findElement(By.linkText("25")).click();
23
24 }
25
```



Added 36-

Prints the captured month and year.

```
26
27  public static void futureDate(String expMonthYear, String day) {
28
29      String actMonthYear = driver.findElement(By.className("ui-datepicker-title")).getText();
30      System.out.println(actMonthYear);//April 2025
31
32      while(!actMonthYear.equalsIgnoreCase(expMonthYear)) {//July 2025 == July 2025
33          //click on next icon:
34          driver.findElement(By.xpath("//span[text()='Next']")).click();
35          actMonthYear = driver.findElement(By.className("ui-datepicker-title")).getText();//July 2025
36          System.out.println(actMonthYear);
37
38      }
```

```
/src/main/java/seleniumsessions
CalendarHandling (7) [Java Application]
September 2025
October 2025
November 2025
December 2025
January 2026
February 2026
March 2026
April 2026
May 2026
June 2026
July 2026
August 2026
September 2026
October 2026
November 2026
December 2026
January 2027
February 2027
March 2027
April 2027
May 2027
June 2027
July 2027
```

Write two negative case when the number of days is greater than 31 and another case for when the number of days is less than or equal to zero-

```
19
20     futureDate("November 2025", "35");
21 //     driver.findElement(By.linkText("25")).click();
22 }
23
24
25
26
27 public static void futureDate(String expMonthYear, String day) {
28
29
30     if(Integer.parseInt(day)>31) {
31         System.out.println("wrong day is passed, please pass the day range between 1 to 31");
32         return;
33     }
34
35     if(Integer.parseInt(day)<=0) {
36         System.out.println("wrong day is passed, please pass the day range between 1 to 31");
37         return;
38     }
39
40 }
```

```
<terminated> CalendarHandling (7) [Java Application] /Users/naveenautomationlabs-p2/pool/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.ma  
Apr 08, 2025 9:41:57 AM org.openqa.selenium.devtools.CdpVersionFinder  
WARNING: Unable to find an exact match for CDP version 135, returning  
wrong day is passed, please pass the day range between 1 to 31
```

February with more than 29 days-
Add validation for that.

```
16     driver.findElement(By.xpath("//button[@aria-label='Datepicker']")).click();  
17  
18     futureDate("February 2025", "30");  
19  
20 //     driver.findElement(By.linkText("25")).click();  
21  
22 }  
23  
24  
25  
26  
27= public static void futureDate(String expMonthYear, String day) {  
28  
29     if(expMonthYear.contains("February") && Integer.parseInt(day)>29) {  
30         System.out.println("wrong day is passed for February, please pass the day range between 1 to 29");  
31         return;  
32     }
```

Write logic month wise like some months have 30 days, some have 31 days, Leap year for february, non leap for february. Homework.

1.17–

Naveen told everything we should not handle and make it complex.

Give documentation. Logic written by developer. Our code is for testing not for end users.

Like for example, we give documentation.

```
26  
27= /**  
28 * |  
29 * @param expMonthYear  
30 * @param day  
31 */  
32= public static void futureDate(String expMonthYear, String day) {
```

Home work-

Click on the previous date.

Only change is dont click next, click previous.

Time complexity-

Worst case scenario-

One while loop. Infinite times. So $O(n)$. 1.20

```
39      // single selection:
40      // while (true) {
41      //     if (driver.findElements(By.xpath("//td[text()='India']")).size() > 0) {
42      //         System.out.println("country is found");
43      //         selectCountry("India");
44      //         break;
45      //     } else {
46      //         // pagination logic:
47      //         // click on next
48      //         WebElement next = driver.findElement(By.cssSelector("button.next"));
49      //
50      //
51      //         if (next.getDomAttribute("class").contains("disabled")) {
52      //             System.out.println("pagination is over...country is not found...");
53      //             break;
54      //         }
55      //
56      //         next.click();
57      //         Thread.sleep(1000);
58      //
59      //     }
60     //}
61 }
62 }
```

Best case scenario-

And if country available in first page, then $O(1)$.