- 1. Please write complete test cases for these Search hotel scenario:
 - a. Check-in date should be not less than today and max 30 days from today

HotelMenu_ShouldBeAbleToSearch_WhenCheckInDateIsToday

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is today at Calender Box
- Select Next Button

Assert Equal (Expected) "Search Hotel should be able to select the date"

$Hotel Menu_Should Be Able To Search_When Check In Date Is Thirth Days From Today$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is 30 days from today at Calender Box
- Select Next Button

Assert Equal (Expected) "Search Hotel should be able to select the date"

HotelMenu_ShouldNotBeAbleToSearch _WhenCheckInDateIsLessThanToday

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is a day before current date at Calender Box

Assert Equal (Expected) "Should be return response : check In Date is invalid"

$Hotel Menu_Should Not Be Able To Search_When Check In Date Is More Than 30 Days From Today$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is 31 days from today at Calender Box

Assert Equal (Expected) "Should be return response : check In Date is invalid, maximal is 30 days from today"

HotelMenu ShouldNotBeAbleToSearch WhenCheckInDateIsEmpty

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is empty

Assert Equal (Expected) "Should be return response to fill the checkIn Date first"

b. Duration of stay, max 5 nights

$\label{thm:checkinDate} Hotel Menu_Should Be Able To Search_When Check In Date Is Today And Stay Duration Search_When CheckinDate Is Today And Search_When$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is today at Calender Box

- Set checkout Date is 5 nights from today

Assert Equal (Expected) "Should be able to apply the stay duration"

$Hotel Menu_Should Be Able To Search_When Check In Date Is To day And Stay Duration Is Less Than Maximum Duration$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is today at Calender Box
- Set checkout Date is 4 nights from checkIn Date

Assert Equal (Expected) "Should not be able to apply the stay duration"

$Hotel Menu_Should Be Able To Search_When Check In Date Is Thirty Days From Today And Stay Duration Is Equal To Maximum Duration$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is 30 days from today at Calender Box
- Set checkout Date is 5 nights from checkIn Date

Assert Equal (Expected) "Should be able to apply the stay duration"

$Hotel Menu_Should Not Be Able To Search_When Check In Date Is Today And Stay Duration Is More Than Maximum Duration$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is today at Calender Box
- Set checkout Date is 6 nights from checkIn Date

Assert Equal (Expected) "Should not be able to apply the stay duration and show response to set the valid check out Date which is max 5 days"

$Hotel Menu_Should Not Be Able To Search_When Check In Date Is Thirth Days From Today And Stay Duration Is More Than Maximum Duration$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is 30 days from today at Calender Box
- Set checkout Date is 6 nights from checkin Date

Assert Equal (Expected) "Should not be able to apply the stay duration"

$Hotel Menu_Should Not Be Able To Search_When Check In Date Is To day And Stay Check Out Date Is Empty$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is today Calender Box
- Set checkout Date is empty

Assert Equal (Expected) "Should not be able to apply the stay duration and show response to fill the check out date first"

$Hotel Menu_Should Not Be Able To Search_When Check In Date Is Thirth Days From Today And Check Out Date Is Empty$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set checkIn Date is 30 days from today Calender Box
- Set checkout Date is empty

Assert Equal (Expected) "Should not be able to apply the stay duration and show response to fill the check out date first"

c. 1 Room must be at least 1 adult (max 5 adults in 1 room)

HotelMenu ShouldBeAbleToSearch WhenOneRoomForMinimumAdultCapacityGuess

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 1
- Set number of adult guess is 1
- Set number of child guess is 0
- Set Apply Button

Assert Equal (Expected) "Should be able to search the hotel"

$Hotel Menu_Should Be Able To Search_When One Room For Less Than Maximum Adult Capacity Guess$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 1
- Set number of adult guess is 4
- Set number of child guess is 0
- Set Apply Button

Assert Equal (Expected) "Should be able to search the hotel"

$Hotel Menu_Should Be Able To Search_When One Room For Maximum Adult Capacity Guess$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 1
- Set number of adult guess is 5
- Set number of child guess is 0
- Set Apply Button

Assert Equal (Expected) "Should be able to search the hotel"

$Hotel Menu_Should Be Able To Search_When Number Of Guest Is Eque al To Multiple Adult Capacity Guess Per Room$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 2
- Set number of adult guess is 10
- Set number of child guess is 0
- Set Apply Button

Assert Equal (Expected) "Should not be able to search the hotel "

HotelMenu ShouldNotBeAbleToSearch WhenOneRoomForMoreThanAdultCapacityGuess

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 1
- Set number of adult guess is 6
- Set number of child guess is 0
- Set Apply Button

Assert Equal (Expected) "Should not be able to search the hotel and show response the rule which is 1 Room must be at least 1 adult (max 5 adults in 1 room)"

$Hotel Menu_Should Not Be Able To Search_When Number Of Guests Is Not Eque al To Adult Multiple Capacity Guess Per Room$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 2
- Set number of adult guess is 11
- Set number of child guess is 0
- Set Apply Button

Assert Equal (Expected) "Should not be able to search the hotel and show response the rule which is 1 Room must be at least 1 adult (max 5 adults in 1 room)"

$Hotel Menu_Should Not Be Able To Search_When Number Of Room Is More Than Number Of Guess$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 2
- Set number of adult guess is 1
- Set number of child guess is 0
- Set Apply Button

Assert Equal (Expected) "Should not be able to search the hotel and show the response which is number of room is not able more than number of guess"

d. and children (max 5 years old and max 2 children in 1 room) must be accompanied by min 1 adult

HotelMenu_ShouldBeAbleToSearch_WhenOneRoomForMinimumAdultGuessAndLess ThanMaximumChildrenGuessCapacity

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 1
- Set number of adult guess is 1
- Set number of child guess is 1
- Set Apply Button

Assert Equal (Expected) "Should not be able to search the hotel "

HotelMenu_ShouldBeAbleToSearch_WhenOneRoomForMinimumAdultGuessAnd MaximumChildrenGuessCapacity

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 1
- Set number of adult guess is 1
- Set number of child guess is 2
- Set Apply Button

Assert Equal (Expected) "Should not be able to search the hotel "

$Hotel Menu_Should Be Able To Search_When One Room For Maximum Adult Guess And Maximum Children Guess Capacity$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 1
- Set number of adult guess is 5
- Set number of child guess is 2
- Set Apply Button

Assert Equal (Expected) "Should not be able to search the hotel "

$Hotel Menu_Should Not Be Able To Search_When One Room For Minimum Adult Guess And More Than Maximum Children Guess Capacity$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 1

- Set number of child guess is 3
- Set Apply Button

Assert Equal (Expected) "Should not be able to search the hotel "

HotelMenu_ShouldNotBeAbleToSearch_WhenOneRoomForMaximumAdultGuessAnd MoreThanMaximumChildrenGuessCapacity

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 1
- Set number of adult guess is 5
- Set number of child guess is 3
- Set Apply Button

Assert Equal (Expected) "Should not be able to search the hotel "

$Hotel Menu_Should Not Be Able To Search_When Room Only For Children$

- Navigate to Search Hotel Form Page
- Set Hotel Location
- Set valid stay duration
- Set number of room is 1
- Set number of adult guess is 0
- Set number of child guess is 1
- Set Apply Button

Assert Equal (Expected) "Should not be able to search the hotel and show response the direction which is 1 Room must be at least 1 adult (max 5 adults in 1 room) "

- 2. Analyze anomaly on screenshot below and elaborate whether it's a FE or BE bug.
 - a. Elaborate your analysis
 - I found that hotel search feature is not give the expected result for what user looking for by the filter inputted in form.
 - User looking for The Hotel in *Jakarta* at Saturday, 30 Apr 2022 for 1 night stay duration, 1 room, 1 adult and no childreen guess.
 - But the result is, Traveloka response by the same filter of date, number of room, number of guess except the Location filter (*Bali*).

But if we looking carefully, the user have some history of hotel searching before, which the last history is looking for the hotels in Bali.

In my opinion it's a FE Bug.

It seems like it related to cache handling (FE Scope): about history of hotel location searching. The location in cache still exist and used as a location parameter in new request to server.

b. Create the bug report.

Category	Label	Value
Bug Id	ID Number	#1
	Name	Accomodation – Mismatched Search Results for Hotel
		Location
	Reporter	Lily Tarigan
	Submit Date	February 12, 2024
Bug Overview	Summary	When I filter Hotel Location in Jakarta, the results give
		me Hotel in Bali but all the other filter is already
		appropriate.
	URL	Dashboard > Hotels > Search Form > Location > Search
	Screenshot	
Env	Platform	iOS
	OS	-
	Арр	Traveloka version
Bug Details	Steps to Reproduce	First Step - Search hotels in Bali at Today - Set for 1 night - Set for 1 room - Set for 1 adults guess only (no children) - Search Second Step - Seach hotel again in Jakarta for tomorrow - Set for 1 night - Set for 1 room - Set for 1 adults guess on;y (no children) - Search
	Expected	The hotel should be filter by Jakarta Location
	Actual	The hotel filtered by Bali Location
	Desc	-
Bug Tracking	Severity	Major
	Assignted to	
	Priority	High
Notes	Notes	-

3. Write the automation script for this test case

Language: Any

o Select Cars Product

Select tab Without Driver

O Select Pick-up Location (e.g.: Jakarta)

o Select Pick-up Date & Time (e.g.: today+2d 09:00)

o Select Drop-off Date & Time (e.g.: today+5d 11:00)

o Click button Search Car

Select Car

o Click Continue

Select payment method and proceed payment

Analyze: this test case is to running automatically process of car rental reservation without driver from select the car untill to the payment proceed.

I choose to use C# Language

```
Using openQA.Selenium.Chrome;
Class Program
 Static void Main()
   IWebDriver driver = new ChromeDriver();
   driver.Navigate().goToUrl("url_traveloka_rental_mobil");
   selectCatProduct(driver);
   selectWithoutDriver(driver);
   selectPickupLocation(driver, "Jakarta");
   selectPickupDateTime(driver, dateTime.Today.AddDays(0), "09:00");
   selectDropOffDateTime(driver, dateTime.Today.AddDays(5), "11:00");
   clickStartSearchCarButton(driver);
   selectCar(driver);
   selectCarProvider(driver);
   clickProductDetailButton(driver);
   selectPickupLocationInRentalOffice(driver);
   selectDropOffLocationInOtheLocation(driver);
   inputPickUpDropOfNotes(driver, "note");
   clickbuttonBook(driver);
   fillContactDetails(driver);
   fillDriverDetails(driver);
   clickContinueButton(driver);
   addSpecialRequestOptional(driver, "note");
   checkAllRentalRequirements(driver);
```

```
clickContinue(driver);
selectPaymentMethod(driver);
processPayment(driver);
 driver.Quit();
}
// Method
selectCatProduct(IWebDriver driver);
{
  // click cars product
  Driver.FindElement(By.Id("cars_product")).Click();
}
selectWithoutDriver(IWebDriver driver);
  // click without driver tab
  Driver.FindElement(By.Id("without driver")).Click();
}
selectPickupLocation(IWebDriver driver, string location)
  // select pickup Location
  IWebElement pickupLocationInput = driver.FindElemet(By.Id("pickup_location"));
  pickupLocationInput.Clear();
  pickupLocationInput.SendKeys(location);
}
selectPickupDateTime(IWebDriver driver, string time, DateTime date)
{
  // select pickup date
  IWebElement pickupDateInput = driver.FindElemet(By.Id("pickup_date"));
  pickupDateInput.Clear();
  pickupDateInput.SendKeys(date.ToString("YYYY-MM-DD");
  // select pickup time
  IWebElement pickupTimeInput = driver.FindElemet(By.Id("pickup_time"));
  pickupTimeInput.Clear();
  pickupTimeInput.SendKeys(time);
selectDropOffDateTime(IWebDriver driver, string time, DateTime date)
  // select dropoff date
  IWebElement dropoffDateInput = driver.FindElemet(By.Id("dropoff date"));
```

```
dropoffDateInput.Clear();
 dropoffDateInput.SendKeys(date.ToString("YYYY-MM-DD");
 // select dropoff time
 IWebElement dropoffTimeInput = driver.FindElemet(By.Id("dropoff time"));
 dropoffTimeInput.Clear();
 dropoffTimeInput.SendKeys(time);
clickStartSearchCarButton(IWebDriver driver);
 // click cars product
 driver.FindElement(By.Id("search_car_button")).Click();
selectCar(IWebDriver driver);
 // click cars product
 IWebElmenet carListItem = driver.FindElement(".car list item");
 carListItem.Click();
}
selectCarProvider(IWebDriver driver);
 // click cars product
 IWebElmenet carListItem = driver.FindElement(".car provider item");
 carListItem.Click();
}
clickContinueButtonProductDetailButton(IWebDriver driver);
 // click cars product
 driver.FindElement(By.Id("continue_button")).Click();
selectPickupLocationInRentalOffice(IWebDriver driver);
 // click cars product
 driver.FindElement(By.Id("pick location at rental office")).Click();
selectDropOffLocationInOtherLocation(IWebDriver driver);
 // click cars product
 driver.FindElement(By.Id("dropoff_location_at_other_location")).Click();
inputPickUpDropOffNotes(IWebDriver driver, string notes)
```

```
// click cars product
 IWebElmenet notesInput = driver.FindElementBy.Id("pickup dropoff notes"));
 notesInput.Clear();
 notesInput.SendKeys(notes);
}
clickbuttonBook(IWebDriver driver);
 // click cars product
 driver.FindElement(By.Id("book_button")).Click();
fillContactDetails(IWebDriver driver);
 // click cars product
 IWebElmenet nameInput = driver.FindElementBy.Id("name_input"));
 notesInput.SendKeys("Lily");
 IWebElmenet emailInput = driver.FindElementBy.Id("email_input"));
 emailInput.SendKeys("lilyursula6@gmail.com");
 IWebElmenet phoneInput = driver.FindElementBy.Id("phone input"));
 notesInput.SendKeys("+6282282775880");
}
fillDriverDetails(IWebDriver driver);
 // click cars product
 IWebElmenet driverNameInput = driver.FindElementBy.Id("driver_name_input"));
 driverNameInput.SendKeys("Lily");
 IWebElmenet emailDriverInput = driver.FindElementBy.Id("driver_email_input"));
 emailInput.SendKeys("lilyursula6@gmail.com");
 IWebElmenet driverLicense = driver.FindElementBy.Id("driver license input"));
 driverLicense.SendKeys("+6282282775880");
}
clickContinueButton(IWebDriver driver);
 // click cars product
 driver.FindElement(By.Id("continue_button")).Click();
addSpecialRequestOptional(IWebDriver driver, string notes)
```

4. Open this link 1to50:

- a. How to find elements / selectors from the web user interface ?

 In my opinion, to find elements / selectors of this game is by initialize 50 id for each boxes.
- b. Please create a pseudocode or logic step to solve the following game using an automated test.

Scenario:

There are 5x5 boxes containing random values from 1-25. We will select the number sequensce from the boxes start from 1 to 25. After one number removed, number 26 until 50 will appear one by one to fill the position was just selected (but their apprarance order is randomly). Its possible that number 31 appers first, followed by 26 and so on. If the selected number is out of order, then the box cant be clicked.

After the sequence of 1-25 is completed, all numbers from 26-50 will remain in the boxes. Starting from the sequence that beginning with 26, whet it selected.. the position will not be filled from sequence 51 and so on anymore. It will stop in this session and the box will disappear one by one untul 50 is successfully completed we selected. Eventually, all boxes disappear and obtain score will remain.

```
BEGIN
Function GridInitialize();
 Create a 5x5 grid
 Fill the grid with random numbers from 1 to 25
Function playGame()
 Initialize grid
 Initialize currentNumber to 1
 Inisialize score to 0
 Loop until all numbers from 1 to 50 are selected;
    if currentNumber <=25:
      Display grid
      Allow player to click on a box
       if clickedBox value == curentNumber:
         Set clickedBox value to 0
         Increment score
         Increment currentNumber by1
       else:
         Box cant be click
    else:
      Display grid
      Allow player to click on a box
       if clickedBox == currentNumber:
         Set clickedBox to 0
         clickedBox hide
        else:
         Box cant be click
Display final score
END
```