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Homework

Exercise A

Given the following data structure:

```
stops = [ "Croy", "Cumbernauld", "Falkirk High", "Linlithgow", "Livingston", "Haymarket" ]
```

Complete these tasks:

- 1. Add "Edinburgh Waverley" to the end of the array
- 2. Add "Glasgow Queen St" to the start of the array
- 3. Add "Polmont" at the appropriate point (between "Falkirk High" and "Linlithgow")
- 4. Print out the index position of "Linlithgow"
- 5. Remove "Livingston" from the array using its name
- 6. Delete "Cumbernauld" from the array by index
- 7. Print the number of stops there are in the array?
- 8. Show as many ways as you can to return "Falkirk High" from the array?
 9. Reverse the positions of the stops in the array
- 10. Print out all the stops using a for loop

Exercise B

users = {

Given the following data structure:

```
iers = {
    "Jonathan" => {
        :twitter => "jonnyt",
        :lottery_numbers => [6, 12, 49, 33, 45, 20],
        :home_town => "Stirling",
        :pets => [
       :name => "fluffy",
:species => "cat"
       :name => "fido";
        :species => "dog"
       :name => "spike",
:species => "dog"
    }
  'Erik" => {
    crik => {
   :twitter => "eriksf",
   :lottery_numbers => [18, 34, 8, 11, 24],
   :home_town => "Linlithgow",
   :pets => [
       :name => "nemo",
       :species => "fish"
       :name => "kevin"
       :species => "fish"
       :name => "spike",
:species => "dog"
    {
       :name => "rupert"
       :species => "parrot"
:name => "monty",
:species => "snake"
    ]
```

Complete these tasks:

- 1. Get Jonathan's Twitter handle (i.e. the string "jonnyt")
- 2. Get Erik's hometown

- 3. Get the array of Erik's lottery numbers
- 4. Get the species of Avril's pet Monty
- 5. Get the smallest of Erik's lottery numbers
 6. Return an array of Avril's lottery numbers that are even
- 7. Erik is one lottery number short! Add the number 7 to be included in his lottery numbers
- 8. Change Erik's hometown to Edinburgh
- 9. Add a pet dog to Erik called "Fluffy" 10. Add another person to the users hash

Exercise C

Given the following data structure:

```
united_kingdom = [
        name: "Scotland",
population: 5295000,
capital: "Edinburgh"
        name: "Wales",
population: 3063000,
capital: "Swansea"
        name: "England",
population: 53010000,
capital: "London"
```

Complete these tasks:

- 1. Change the capital of Wales from "Swansea" to "Cardiff".
- 2. Create a Hash for Northern Ireland and add it to the united_kingdom array (The capital is Belfast, and the population is 1,811,000).
- 3. Use a loop to print the names of all the countries in the UK.
- 4. Use a loop to find the total population of the UK.

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