

A close-up photograph of a hand holding a black iPhone. The screen is dark, and the white Apple logo and 'iOS' text are visible. The background is blurred, showing what appears to be a car wheel.

SWIFT: THE LANGUAGE OF IOS DEVELOPMENT

Section 7 Exercise

```
1 import UIKit
```

```
2
```

```
3
```

```
    "Arlington"
```

```
4
```

```
5
```

```
    = "San
```

```
    Marcos"
```

```
6
```

```
7
```

```
8
```

```
9
```

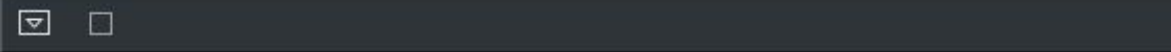
1. Create a new playground file and title it **Section 7.playground**.

2. Create an array called `texasCities` that has the following members:

Houston	Dallas
Austin	San Antonio
El Paso	Ft. Worth
Arlington	Waco
Lubbock	Corpus Christi

3. Change the last member of the array to San Marcos.

4. Loop through the array with a For-In Loop to output all the Texas cities now in the array.



```
Houston
Dallas
Austin
San Antonio
El Paso
Ft. Worth
Arlington
Waco
Lubbock
San Marcos
```

```
1 import UIKit
2
3 var texasCities = ["Houston", "Dallas", "Austin", "San Antonio", "El Paso", "Ft. Worth", "Arlington", "Waco", "Lubbock", "Corpus Christi"]
4
5 texasCities[texasCities.count-1] = "San Marcos"
6
7 for city in texasCities{
8     print(city)
9 }
```

SOLUTION

Houston
Dallas
Austin
San Antonio
El Paso
Ft. Worth
Arlington
Waco
Lubbock
San Marcos

Section7.1

Go Back

```
1 import UIKit
2
3 var capitals: [String: String] = [
4     "Connecticut": "Hartford",
5     "New York": "Albany",
6     "Florida": "Tallahassee",
7     "Maine": "Augusta",
8     "Illinois": "Springfield",
9     "Texas": "Austin"
10 ]
11
12 for keyOut in capitals.keys {
13     print(keyOut)
14 }
15
16 for valueOut in capitals.values {
17     print(valueOut)
18 }
19
```

▶



1. Create a new playground file and title it **Section 7.1.playground**.
2. Create a dictionary, called capitals, that has the following String/String members:
"Connecticut" : "Hartford",
"New York" : "Albany",
"Florida" : "Tallahassee",
"Maine" : "Augusta",
"Illinois" : "Springfield",
"Texas" : "Austin"
3. Using a single for...in loop separately output all of the keys (states) and then the values (capitals) in the dictionary.

States: Florida New York Texas Maine Illinois Connecticut
Capitals: Tallahassee Albany Austin Augusta Springfield Hartford

```

1 import UIKit
2
3 var capitals: [String:String] = [
4     "Connecticut" : "Hartford",
5     "New York" : "Albany",
6     "Florida" : "Tallahassee",
7     "Maine" : "Augusta",
8     "Illinois" : "Springfield",
9     "Texas" : "Austin"
10 ]
11
12 var keyOut:String = "States:"
13 var valueOut:String = "Capitals:"
14 for(key,value) in capitals {
15     keyOut += (" " + key)
16     valueOut += (" " + value)
17 }
18 print(keyOut)
19 print(valueOut)

```

SOLUTION

["Florida": "T... ☐

"States:" ☐

"Capitals:" ☐

(6 times) ☐

(6 times) ☐

"States: Flori... ☐

"Capitals: Tall... ☐