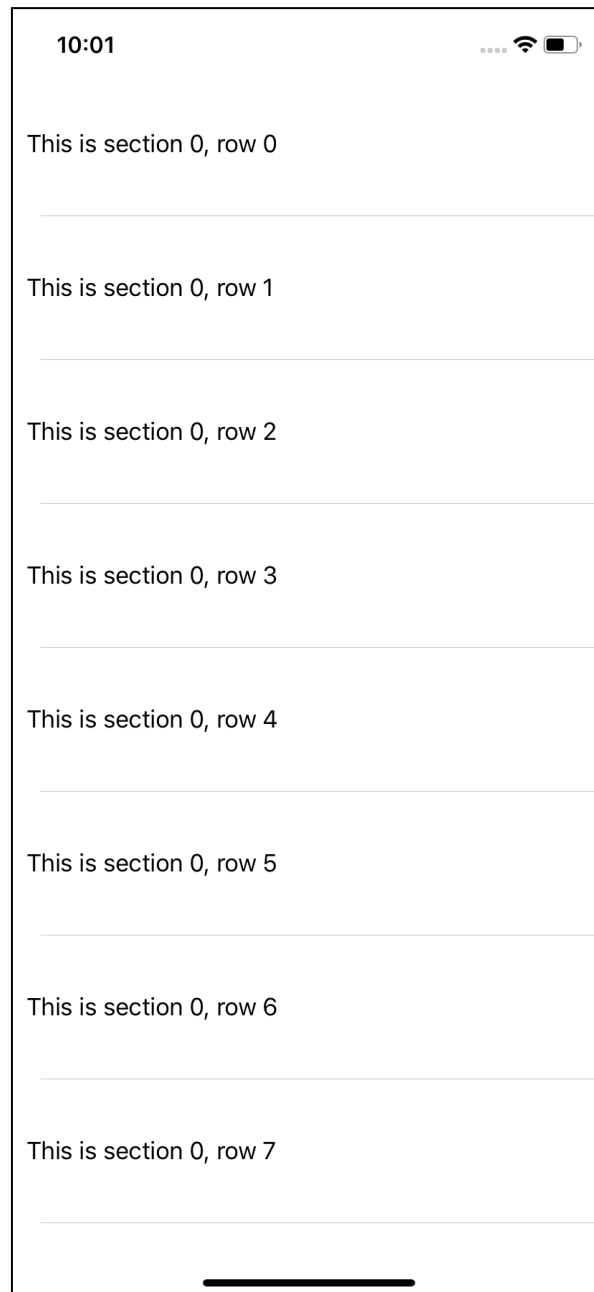**Batch #22 / iOS Class**

Remote Learning Assignment - Week 4

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1. Please implement a table view with 2 sections (10 rows and 5 rows for section 0 and section 1 respectively.) Each cell in the table view has one label which will identify the current section and row it stands for. The row height should be 100 pixels.

2. There are several methods defined in the UITableViewDataSource protocol. Which methods are called by the system after we manually call reloadData() of a table view and what are their sequences? Please describe in as much detail as possible.

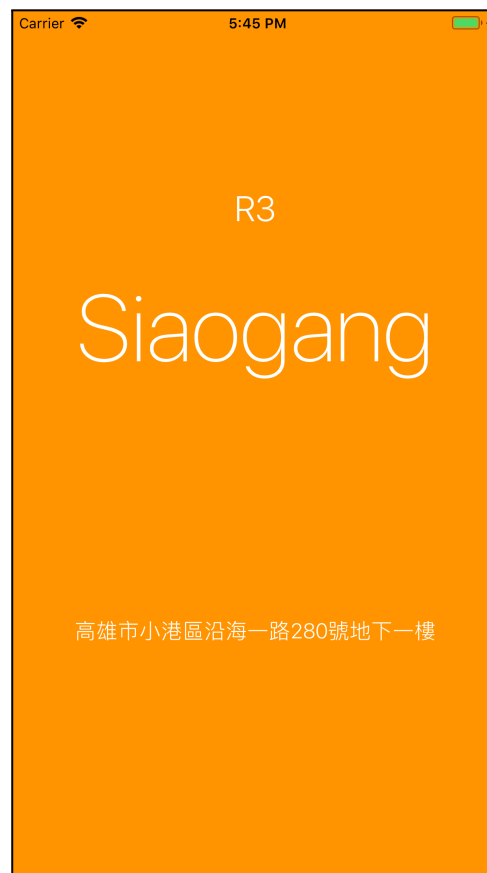3. Please complete this assignment in a new app. You should fetch the data via URLSession .

URL: https://remote-assignment.s3.ap-northeast-1.amazonaws.com/station
Method: GET
Sample Response:
```
{
    "stationID": "R16",
    "stationName": "Zuoying",
    "stationAddress": "高雄市左營區高鐵路107號地下一層"
}
```

- Only consider iPhone 14 Pro screen size when implementing this app.
- Here're the UI requirements (measured in point.)
  - **StationID label**: 35 from StationName label, center X as superview's center X, font size 30
  - **StationName label**: center Y 100 higher than superview's center Y, center X as superview's center X, font size 80
  - **Address label:** center X as superview's center X, 200 from superview's bottom, font size 18

4. (Advanced) Please complete the following function that prints a pyramid made of asterisks.

```swift
func printPyramid(layers: Int) {
    // TODO: print a pyramid
}
```

For example, here's what the output of `printPyramid(layers: 5)` should be:

```
    *
   ***
  *****
 *******
*********
```

5. (Optional) Do you have any App ideas that you are interested in and want to develop? List them along with a brief description (2 sentences at most), and **no need to consider the availability, required techniques and business models** at all.