General Instructions: Put the entire app directory into one zip file and submit as an attachment under Content → Homework 6 for this course on the Blackboard Learn system by the above deadline. Note that you may submit multiple times, but only the most recent entry submitted before the above deadline will be graded.

For this homework you will add some settings to the HW5 Food App. I have posted my solution to HW5 on Blackboard Learn. You can start from my solution or your own. See screenshots below. Specifically,

1. In the main “Favorite Foods” table view, add a left bar button item that segues to a Settings view. The Settings view should be a static table with one section and two settings: “Sort Items” and “Default Food”. Set navigation bar title and prompt as shown in screenshots.

2. The Sort Items setting should be a Boolean that is changed via a switch in the Settings page. If set to On, then the food items in the “Favorite Foods” table view should be listed in alphabetical order by food name. If the switch is Off, then food items should be listed in their original order. The Sort Items setting should persist, even if the app is terminated, by storing it in UserDefaults.

3. The Default Food setting should be a text field that allows the user to enter the food name that will be used when a new food is added via tapping the “+” button on the “Favorite Foods” view. New foods should be added to the end of the list of Favorite Foods so that if sorting is Off, these new foods will be at the bottom of the listing. But if sorting is on, the new foods should be listed in their appropriate alphabetical order. The Default Food setting should persist, even if the app is terminated, by storing it in UserDefaults.

4. The first time the app is run, it should initialize the UserDefaults settings in AppDelegate:didFinishLaunchingWithOptions to Sort Items = Off and Default Food = “Food”. The current settings should always be displayed in the Settings view, and changes to the settings should have an immediate effect on the main view.

5. Your app will still need to handle deletion correctly. This means that items deleted from the sorted list should be deleted from the unsorted list and vice versa. One approach is to store a food item’s index in the unsorted array along with the food item. Then, if you delete an item from the sorted list, you can also delete the item with that index from the unsorted list.

6. Be sure that auto layout constraints are set so that all elements in all views are appropriately displayed (i.e., no overlap, occlusion, or cutoff at edges) regardless of device orientation.
7. Your app should run in Xcode 11 using Swift 5 and iOS 13. Your app will be tested using Xcode’s iPhone 8 device simulator, so make sure your layout constraints work for that device.

**Storyboard:**

**Simulator:**

- **Initial Main View**
- **Initial Settings View**
- **Changed Settings**
- **Sorted with 3 New Foods**