IOS Project Instructions for candidates

Last verified by Michael Speer on 05-20-2021

Introduction

You can also choose to solve the problem in whichever language you're most comfortable with. Once you start the exercise, you'll have two hours to complete and submit your solution. We have provided a set of test cases to help you verify your solution, but do take the time to consider edge cases that may not be covered by the test cases you have been provided.

Challenge - Assignment Status Update Messages

Kinjo helps parents easily keep up with their child's school day by providing an easy-to-consume list of updates about the assignments. Kinjo pulls assignments regularly and diffs the changes to provide status update messages for the parent.

An assignment has a unique identifier, a name, and a status and for the purposes of this question appear as a string with colons separating the properties.

To make this fun, we'll use underscores instead of spaces, and strings for names and statuses will be a single word.

```
Assignment: {
  id: 1,
  name: "Homework",        ====>        "1_Homework_Graded"
  status: "Graded"
}
```

Your challenge is to define a function that takes an old set of assignments and a new set of assignments and generates a set of messages informing the parent how the set of assignments has changed and which have been added or removed.

The first argument is an array of assignments that represents the existing set.
The second argument is an array of assignments that represent the new updated set we just pulled.
The resulting messages should be sorted by the identifier in ascending order to pass the test cases.

Example Data and Results

Existing Assignments	New Assignments	Expected output
["1_FirstHomework_Assigned"],	["1_FirstHomework_Submitted"]	["FirstHomework_was_subr
["1_FirstHomework_Submitted"," 2_SecondHomework_Assigned"],	["1_GRADEDFirst homework_Graded", "2_SecondHomework_Submitted"]	["FirstHomework_was_rena GRADEDFirstHomework_ar "SecondHomework_was_su
["1_FirstHomework_Submitted"],	["1_FirstHomework_Submitted", "2_SecondHomework_Assigned"]	["SecondHomework_was_a

Data to provide results from your code

Existing Assignments	New Assignments	Your Code should print out these results
["1_FirstHomework_Graded"," 2_SecondHomework_Assigned"]	["1_FirstHomework_Graded"]	
["1_FirstHomework_Assigned"," 2_SecondHomework_Assigned"," 3_ThirdHomework_Assigned]"	["3_ThirdHomework_Submitted"," 1_FirstHomework_Graded"," 2_SecondHomework_Returned"]	
["1_FirstHomework_Assigned"," 2_SecondHomework_Assigned"," 3_ThirdHomework_Assigned"]	["1_FirstHomework_Assigned"," 3_ThirdHomework_Assigned"]	
["1_FirstHomework_Assigned"]	["1_FirstHomework_Submitted"]	
["1_FirstHomework_Assigned"," 2_SecondHomework_Assigned"," 3_ThirdHomework_Assigned"]	["4_FourthHomework_Assigned"," 5_FifthHomework_Addressable"," 6_SixthHomework_Assigned"]	