

Problem 1 – Sprint Review

It's the end of the **two-week** Sprint, and your job now is to **calculate the sum of the estimation points** for each of the **different columns** on the Sprint board and decide whether the **Sprint** was **successful** or **not**. The Sprint board contains **assignees** and their **individual tasks**, each task has a **task ID** (a unique string), **title**, **status** ('ToDo', 'In Progress', 'Code Review', 'Done'), and **estimation points**.

You will receive **an array as a parameter**. The **first element** in that array is **an integer, n**.

The **next n amount of elements** contain information about the **initial state** of the Sprint board, each element having the following format: **"{assignee}:{taskId}:{title}:{status}:{estimatedPoints}"**. **An assignee can have multiple tasks!**

The **other elements inside the array** contain commands that will **change** the **state** of the **tasks** inside the board, each command containing information separated with the symbol **":"**.

The commands will be the following:

- **"Add New:{assignee}:{taskId}:{title}:{status}:{estimatedPoints}"**:
 - You need to **add** the **new task to the end of** the tasks collection of the given **assignee**.
 - If the assignee **does not exist** on the board, print:
 - **"Assignee {assignee} does not exist on the board!"**
- **"Change Status:{assignee}{taskId}:{newStatus}"**:
 - Change the **status** of the task with the given **task ID** for the **assigned person**.
 - If the assignee **does not exist** on the board, print:
 - **"Assignee {assignee} does not exist on the board!"**
 - If the task ID **does not exist** inside the collection for the assignee, print:
 - **"Task with ID {taskId} does not exist for {assignee}!"**
- **"Remove Task:{assignee}{index}"**:
 - Remove the **task** at the **given index** from the assignee's **collection**.
 - If the assignee **does not exist** on the board, print:
 - **"Assignee {assignee} does not exist on the board!"**
 - If the index is **out of bounds**, print:
 - **"Index is out of range!"**

In the end, you have to print the **total points** of all **ToDo**, **In Progress**, **Code Review**, and **Done** tasks, each on a **separate line**, in the following format:

- **"ToDo: {todoTasksTotalPoints}pts"**
- **"In Progress: {inProgressTasksTotalPoints}pts"**
- **"Code Review: {codeReviewTasksTotalPoints}pts"**
- **"Done Points: {doneTasksTotalPoints}pts"**

You also have to print **whether** or **not** the **Sprint** was **successful**. A two-week Sprint is successful if the **total points** for **all the tasks** with status **"Done"** is **more or equal than** the **sum of all the points** for the **other 3 types of tasks** combined (**"ToDo"**, **"In Progress"** and **"Code Review"**).

- If the Sprint was successful, print:
 - **Sprint was successful!**
- If the Sprint was **NOT** successful, print:
 - **Sprint was unsuccessful...**

Examples

Input	Output
<pre>['5', 'Kiril:BOP-1209:Fix Minor Bug:ToDo:3', 'Mariya:BOP-1210:Fix Major Bug:In Progress:3', 'Peter:BOP-1211:POC:Code Review:5', 'Georgi:BOP-1212:Investigation Task:Done:2', 'Mariya:BOP-1213:New Account Page:In Progress:13', 'Add New:Kiril:BOP-1217:Add Info Page:In Progress:5', 'Change Status:Peter:BOP-1290:ToDo', 'Remove Task:Mariya:1', 'Remove Task:Joro:1',]</pre>	<p>Task with ID BOP-1290 does not exist for Peter!</p> <p>Assignee Joro does not exist on the board!</p> <p>ToDo: 3pts</p> <p>In Progress: 8pts</p> <p>Code Review: 5pts</p> <p>Done Points: 2pts</p> <p>Sprint was unsuccessful...</p>
Comments	
<p>We first receive the initial status of the Sprint board and parse the information inside our collection structure. Then, we start receiving the commands. The first one adds a new task to the assignee that exists on the board. The second command tries to change the status of the task with ID BOP-1290 that does not exist in the collection, so we print a message. The third command removes the task successfully. The final command tries to remove a task of a non-existent person, so we print the error message. In the end, we display a Sprint review – ToDo Tasks {3}, In Progress Tasks {3 + 5 = 8}, Code Review {5}, Done Tasks {2}. Unfortunately, this Sprint was unsuccessful.</p>	
Input	Output
<pre>['4', 'Kiril:BOP-1213:Fix Typo:Done:1', 'Peter:BOP-1214:New Products Page:In Progress:2', 'Mariya:BOP-1215:Setup Routing:ToDo:8', 'Georgi:BOP-1216:Add Business Card:Code Review:3', 'Add New:Sam:BOP-1237:Testing Home Page:Done:3', 'Change Status:Georgi:BOP-1216:Done', 'Change Status:Will:BOP-1212:In Progress', 'Remove Task:Georgi:3', 'Change Status:Mariya:BOP-1215:Done',]</pre>	<p>Assignee Sam does not exist on the board!</p> <p>Assignee Will does not exist on the board!</p> <p>Index is out of range!</p> <p>ToDo: 0pts</p> <p>In Progress: 2pts</p> <p>Code Review: 0pts</p> <p>Done Points: 12pts</p> <p>Sprint was successful!</p>