## 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** |
| [  '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',  ] | Task with ID BOP-1290 does not exist for Peter!  Assignee Joro does not exist on the board!  ToDo: 3pts  In Progress: 8pts  Code Review: 5pts  Done Points: 2pts  Sprint was unsuccessful... |
| **Comments** | |
| 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**. | |
| **Input** | **Output** |
| [  '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',  ] | Assignee Sam does not exist on the board!  Assignee Will does not exist on the board!  Index is out of range!  ToDo: 0pts  In Progress: 2pts  Code Review: 0pts  Done Points: 12pts  Sprint was successful! |