# Problem 3 - Hero Recruitment



Create a program that keeps track of enrolled heroes and their collection of spells (spellbook). You will be receiving the following commands until you receive the command **"End"**:

* **"Enroll {HeroName}"**:
* Adds the hero to your collection of heroes.
* If the hero is already present in your collection, print: **"{HeroName} is already enrolled."**
* **"Learn {HeroName} {SpellName}"**:
* Adds the spell to the hero's spellbook.
* If the hero does not exist in the collection, print: "**{HeroName} doesn't exist."**
* If the hero already has the spell in his spellbook, print: **"{HeroName} has already learnt {SpellName}."**
* **"Unlearn {HeroName} {SpellName}"**:
* Removes the spell from the hero's spellbook.
* If the hero doesn't exist in the collection, print: "**{HeroName} doesn't exist."**
* If the spell doesn't exist in the hero's spellbook, print: **"{HeroName} doesn't know {SpellName}."**

After receiving the **"End"** command, print all the heroes:  
**"Heroes:**

**== {name1}: {spell1}, {spell2}, {spelln}**

**== {name2}: {spell1}, {spell2}, {spelln}**

**…**

**== {nameN}: {spell1}, {spell2}, {spelln}"**

### Input / Constraints

* You will be receiving **lines** until you receive the **"End"** command.

### Output

* Print the **heroes** in the **format** described above.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| Enroll Stefan  Enroll Peter  Enroll Stefan  Learn Stefan ItShouldWork  Learn John ItShouldNotWork  Unlearn George Dispel  Unlearn Stefan ItShouldWork  End | Stefan is already enrolled.  John doesn't exist.  George doesn't exist.  Heroes:  == Stefan:  == Peter: |
| Enroll Stefan  Learn Stefan ItShouldWork  Learn Stefan ItShouldWork  Unlearn Stefan NotFound  End | Stefan has already learnt ItShouldWork.  Stefan doesn't know NotFound.  Heroes:  == Stefan: ItShouldWork |
| Enroll Stefan  Enroll Peter  Enroll John  Learn Stefan Spell  Learn Peter Dispel  End | Heroes:  == Stefan: Spell  == Peter: Dispel  == John: |

### JS Examples

The input will be provided as an array of strings.

|  |  |
| --- | --- |
| **Input** | **Output** |
| (["Enroll Stefan",  "Enroll Peter",  "Enroll Stefan",  "Learn Stefan ItShouldWork",  "Learn John ItShouldNotWork",  "Unlearn George Dispel",  "Unlearn Stefan ItShouldWork",  "End"]) | Stefan is already enrolled.  John doesn't exist.  George doesn't exist.  Heroes:  == Stefan:  == Peter: |
| (["Enroll Stefan",  "Learn Stefan ItShouldWork",  "Learn Stefan ItShouldWork",  "Unlearn Stefan NotFound",  "End"]) | Stefan has already learnt ItShouldWork.  Stefan doesn't know NotFound.  Heroes:  == Stefan: ItShouldWork |
| (["Enroll Stefan",  "Enroll Peter",  "Enroll John",  "Learn Stefan Spell",  "Learn Peter Dispel",  "End"]) | Heroes:  == Stefan: Spell  == Peter: Dispel  == John: |