Input

- The **possible** commands are:
  - **"End"**
  - **"Enroll {HeroName}"**
  - **"Learn {HeroName} {SpellName}"**
  - **"Unlearn {HeroName} {SpellName}"**

Output

- The **possible** outputs are:

  - **"{HeroName} is already enrolled."**
  - **"{HeroName} doesn't exist."**
  - **"{HeroName} has already learnt {SpellName}."**
  - **"{HeroName} doesn't know {SpellName}."**
  - **"Heroes:**
    == {name1}: {spell1}, {spell2}, {spelln}
    == {name2}: {spell1}, {spell2}, {spelln}

    …

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

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: