### Input

The possible commands are:

* **"AddSpice {spice}"**
* **"AddManySpices {index} {spice1|spice2|spice3|spicen}"**
* **"SwapSpices** **{spice1} {spice2}"**
* **"ThrowAwaySpices {spice} {number of spices to remove}"**
* **"Arrange"**
* **"done"**

## **Examples**

|  |  |  |
| --- | --- | --- |
| **Input** | | **Output** |
| coriander, cloves, paprika, allspice, turmeric, anise, cumin  AddSpice nutmeg  ThrowAwaySpices cloves 3  AddManySpices 3 cayenne|cardamom|mace  done | | coriander turmeric anise cayenne cardamom mace cumin nutmeg |
| **Comment** | | |
| The first command is **AddSpice**: we add nutmeg at the end of the **sequence:**  coriander, cloves, paprika, allspice, turmeric, anise, cumin, nutmeg  Nex command is **ThrowAwaySpices**: we search for cloves, and when we find it we remove three spices (cloves, paprika, and allspice).  The state of the **sequence after the command:**  coriander, turmeric, anise, cumin, nutmeg  The next command is **AddManySpices**: we should insert cayenne, cardamom, and mace at **index 3**  The state of the **sequence after the command:**  coriander, turmeric, anise, cayenne, cardamom, mace, cumin, nutmeg  The "**done**" command is given, so the program stops and we print the final state of the **sequence**. | | |
| **Input** | **Output** | |
| coriander, cloves, paprika, cumin  AddSpice nutmeg  AddSpice anise  AddSpice turmeric  AddSpice cumin  SwapSpices coriander paprika  ThrowAwaySpices cumin 4  done | paprika cloves coriander | |

**JS Examples**

The input will be an array of strings.

|  |  |
| --- | --- |
| **Input** | **Output** |
| (['coriander, cloves, paprika, allspice, turmeric, anise, cumin',  'AddSpice nutmeg',  'ThrowAwaySpices cloves 3',  'AddManySpices 3 cayenne|cardamom|mace',  'done']) | coriander turmeric anise cayenne cardamom mace cumin nutmeg |
| **Comments** | |
| The first command is **AddSpice**: we add nutmeg at the end of the **sequence:**  coriander, cloves, paprika, allspice, turmeric, anise, cumin, nutmeg  The next command is **ThrowAwaySpices**: we search for cloves, and when we find it we remove three spices (cloves, paprika, and allspice).  The state of the **sequence after the command:**  coriander, turmeric, anise, cumin, nutmeg  The next command is **AddManySpices**: we should insert cayenne, cardamom, and mace at **index 3**  The state of the **sequence after the command:**  coriander, turmeric, anise, cayenne, cardamom, mace, cumin, nutmeg  The "**done**" command is given, so the program stops and we print the final state of the **sequence**. | |
| **Input** | **Output** |
| (['coriander, cloves, paprika, cumin',  'AddSpice nutmeg',  'AddSpice anise',  'AddSpice turmeric',  'AddSpice cumin',  'SwapSpices coriander paprika',  'ThrowAwaySpices cumin 4',  'done']) | paprika cloves coriander |