## Problem 3 – Cookie Super Styles

The Cookie monster likes cookies, duh…

Yet the Big Bird (the Big B) holds all the cookies. Big B has a task for the Cookie monster (Cookiemon), in order to give him cookies.

The Cookie monster is given a text that looks much like CSS, but in his favor is called CookieCS (Cookie Super Styles). It follows the rules of standard CSS, but with different properties.

Sample CookieCS:

|  |
| --- |
| #the-big-b{  color: yellow;  size: big;  }  .muppet{  skin: fluffy;  }  all{  meant-for: nerdy-children;  } |

CookieCS has the following rules:

* There are three types of selectors:
  + #id, .class and element
* Selectors can be nested. Valid nested selectors are:
  + #the-big-b .muppet
  + #the-big-b > .muppet
  + #the-big-b ~ .muppet
  + #the-big-b + #cookiemon
* Selectors have properties:
  + Properties are surrounded by { and }
  + Each property has a name and a value, that are separated by ‘:’
  + Each property name-value pair ends with ’;’

Since the MNet (the Muppet Net) has slow connection, the Cookiemon has to make the CookieCS smaller by:

* Removing all unnecessary whitespace
  + The only remaining whitespace must be between nested selectors of type “#the-big-b all”
  + All other whitespace must be removed
  + Whitespace means: space, tabs, new lines, etc…
* Removing the ‘;’ of the last property of all selectors
* Merge equal selectors
  + If the same selector is met more than once, merge the properties of all these selectors in one place
  + The order of appearance of properties must remain the same
  + Only the first occurrence of the selector must remain
* Change property values
  + If the same selector is met more than once, merge its properties
    - If the same property is set in more than one occurrence of the selector, only the last one remains

### Input

### You are given an array of selectors and properties. Each element of the array can contain only one of the following:

* Selectors and opening bracket: “#the-big b {“ or “#the-big-b + #the-cookiemon {“
* Property name and value, followed by “;”: “color:yellow;”
* Closing bracket: “}”
* Whitespaces may occur everywhere, where possible

### Output

Return or console.log the resulting CookieCS

### Sample solution code (in JavaScript)

**function** *solve*(args) {  
 **var** result =…;

*// Your solution here* **console**.log(**result**);}

### Constraints

* **The lines of CookieCS will always be less than 1000**
* **Whitespaces count may vary, they can be between 0 and 100 at each possible position**
* **Some of the test cases are designed to test only specific cases, so partial solutions may also earn points**
* Allowed working time for your program: **0.20 seconds**. Allowed memory: **32 MB**.

### Examples

|  |
| --- |
| **Input** |
| #the-big-b{  color: yellow;  size: big;  }  .muppet{  powers: all;  skin: fluffy;  }  .water-spirit {  powers: water;  alignment : not-good;  }  all{  meant-for: nerdy-children;  }  .muppet {  powers: everything;  }  all .muppet {  alignment : good ;  }  .muppet+ .water-spirit{  power: everything-a-muppet-can-do-and-water;  } |
| **Output** |
| #the-big-b{color:yellow;size:big}.muppet{skin:fluffy;powers:everything}.water-spirit{powers:water;alignment:not-good}all{meant-for:nerdy-children}all. muppet{alignment:good}.muppet+.water-spirit{power:everything-a-muppet-can-do-and-water} |