

### 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}
```