## Problem 3 – More cookies

Actually, there are no cookies at all.

Your task is to parse CookieLESS to CookieHas.

Sample CookieLESS:

|  |  |
| --- | --- |
| **CookieLESS** | Parsed **CookieHas** |
| #the-big-b{  color: big-yellow;  size: big;  .the-little-bs{  color: yellow;  }  }  .muppet{  skin: fluffy;  $.water-spirit{  powers:all;  }  } | #the-big-b {  color: big-yellow;  size: big;  }  #the-big-b .the-little-bs {  color: yellow;  }  .muppet {  skin: fluffy;  }  .muppet.water-spirit {  powers:all;  } |

CookieLESS has the following rules:

* There are three types of selectors:
  + #id, .class and element
* Selectors can be nested
  + i.e. #sel-1 { .sel-2 { /\*… \*/} } is valid selector nesting and produces two different selectors:
    - #sel-1 { /\* its properties \*/ }
    - #sel-1 .sel-2 { /\* its properties \*/ }
  + Valid selectors are
  + #the-big-b.muppet (with space between)
  + Nested selectors will be less than 100
* 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 ’;’
* There is also the special CookieLESS symbol **$ (dollar)** (no cookies cost money…)
  + **$ continues the previous selector** (see in the example for clearness)

Since the MNet (the Muppet Net) has a cookie, it does not understand CookieLESS. Your task is to parse CookieLESS to CookieHas

* Removing all unnecessary whitespace or add necessary whitespace
  + Only a single space must remain in the following conditions:
    - Between nested selectors ("#big-b .small-bs" must be "#big-b .small-bs")
    - After selector and before opening bracket ("#big-b{" must be "#big b {")
    - Before property names there must be exactly 2 spaces ("property-name: value" must be " property-name: value"
    - After the ':' in properties ( "property-name:value" must be "property-name: value")
  + All other whitespace must be removed
  + Whitespace means: space, tabs, new lines, etc…
* All lines with properties must end with ";"

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

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

### Output

Return or console.log the resulting CookieHas

### Sample solution code (in JavaScript)

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

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

### Constraints

* **The lines of CookieLESS will always be less than 600**
* **Whitespaces count may vary, they will be less than 50 at each possible position**
  + Whitespace means: space, tabs, new lines, etc…
* **Each line with property name and value will end with ';'**
* **Each selector will have at least 1 property name and value**
* **Nested selectors will be less than 100**
* **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**.

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| #the-big-b{  color: big-yellow;  .little-bs {  color: little-yellow;  $.male {  color: middle-yellow;  }  }  }  .muppet {  skin : fluffy;  $.water-spirit {  powers : water;  }  $>thread{  color: depends;  }  powers : all-muppet-powers;  } | #the-big-b {  color: big-yellow;  }  #the-big-b .little-bs {  color: little-yellow;  }  #the-big-b .little-bs.male {  color: middle-yellow;  }  .muppet {  skin: fluffy;  powers: all-muppet-powers;  }  .muppet.water-spirit {  powers: water;  }  .muppet>thread {  color: depends  } |
| .jedi {  has: lightsaber;  } | .jedi {  has: lightsaber;  } |