# Problem 3 – Rage Quit

Read a single line from console. Extract all groups of symbols between **parenthese**s**, square brackets and curly brackets**.

For each group you need you need to count all **commas** in the string and replace them with empty string. Then you need to count all other symbols and multiply it by comas count. Depends on type of brackets you need to multiply again:

* () – multiply result by 2
* [] – multiply result by 3
* {} – multiply result by 5

For final result you need to add all group results.

### Input

* The input data should be read from the console.
* It consists of a single line.
* The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

* The output should be printed on the console.
* On single line, print the **result**

### Constraints

* The count of **symbols** will be in the range [1 … 1000000].
* Allowed working time for your program: 0.3 seconds. Allowed memory: 64 MB.

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| (,,SoftUni,),Softuni,(,,4) | 46 | Group 1 - ,,SoftUni,  **3**(commas) \* **7**(symbols) \* **2**(brackets) = **42**  Group 2 - ,,4  **2**(commas) \* **1**(symbols) \* **2**(brackets) = **4**  **42 + 4 = 46** |
| (,,SoftUni,),Softuni,[,,4] | 48 | Group 1 - ,,SoftUni,  **3**(commas) \* **7**(symbols) \* **2**(brackets) = **42**  Group 2 - ,,4  **2**(commas) \* **1**(symbols) \* **3**(brackets) = **6**  **42 + 4 = 48** |
| (,,SoftUni,),Softuni,[,,4]SoftUniC#SoftUni{55} | 48 | Group 1 - ,,SoftUni,  **3**(commas) \* **7**(symbols) \* **2**(brackets) = **42**  Group 2 - ,,4  **2**(commas) \* **1**(symbols) \* **3**(brackets) = **6**  Group 2 - ,,4  **0**(commas) \* **2**(symbols) \* **5**(brackets) = **0**  **42 + 4 = 48** |

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