**Problem 4 - Scrabble**

The input is two **JSON strings**.

**Example:**

*First string:* **{"row4":"operator"}**  
Other valid records for **'row4'** are **'row #4'**, **'row-4'**, **'row&\*^4'** …) shows row of word in table. Between the word **"row"** and the **number of the row** there may be **zero or more symbols** different from a digit.

The word is **horizontal**. The **table** has as many columns and rows **as the length of the word**.

*Second string*: **["generally","objects","system","like","need"]**  
The **second string** contains the **words with which you play**.

The **goal of the game** is to find the **longest word** that crosses the horizontal word. There will always be only **one correct answer**.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **o** |  |  |  |  |  |
|  |  | **b** |  |  |  |  |  |
|  |  | **j** |  |  |  |  |  |
| **o** | **p** | **e** | **r** | **a** | **t** | **o** | **r** |
|  |  | **c** |  |  |  |  |  |
|  |  | **t** |  |  |  |  |  |
|  |  | **s** |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Print result as an **HTML table** (without the styling). The whole board should be put in **<table></table>** tags. Each row should be put in **<tr></tr>** tags. Each cell should be put in **<td></td>** tags, contains a letter of the word or an empty string.

After the table you must **print** each **unused word** and **the sum of its letters ASCII codes** in the following format:

***{“generally”: 2584, “system”: 26548, “like”: 258, “need”: 965}***

If a word is **repeated**, it is displayed **only once**, andthe sum of its lettersis **multiplied** by the repetition of the word. The **words** are arranged in **alphabetical order**.

If there are **no words left unused** you must print **[]**.

**Input**

The input will be read from an **HTTP GET** **request**. The **first string** will be received from a **text** **input field with name 'mainWord'.** The **second string** will be received from a **text** **input field with name 'words'**.

**Output**

Output is an **HTML table** - without the styling. After the table you must **print** each **unused word** and **the sum of its letters ASCII codes** as a **JSON string.** If there are **no words left unused** you must print **[]**.

**Constraints**

* The number of words of the second string will be in the range [1..10]
* The length of words of the second string will be more 2 letters.

**Examples**

|  |  |  |
| --- | --- | --- |
| **Input** | | **Output** |
| **mainWord** | {“row4”: “operator”} | <table><tr><td></td><td></td><td>o</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>b</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>j</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>o</td><td>p</td><td>e</td><td>r</td><td>a</td><td>t</td><td>o</td><td>r</td></tr><tr><td></td><td></td><td>c</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>t</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>  {"generally":963,"like":421,"need":412,"system":677} |
| **words** | [“generally”,”objects”,”system”,”like”,”need”] |