# Problem 3 – PIN Validation

The input consists of two JSON strings.

Example:

*First string:* {"row4":"operator"}  
row4 (other valid records are row 4, row #5, row-5 …) shows row of word in table. Between “row” and number of row, there may be anything different from a digit.

The word is horizontal. The table is infinite and has many columns and rows corresponding to the length of the word.

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

The goal of the game is to find the longest word that crosses the horizontal word. Always, there will 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 and must contain a letter of the word or an empty string. After the table print the amounts of ASCII codes sum of the rest of the words, in the form:

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

If a word is repeated, it is displayed only once, and its amount is multiplied by the repetition of the word. The words are arranged in alphabetical order. If there are no words you must display [].

### 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 print the amounts of ASCII codes sum of the rest of the words **as a JSON string.** If there are no words you must display [].

### 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 than 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”]* |