# Problem 1 – Rainbow Letters

Write a PHP program that reads a **text**, **3 numbers in the range (0-255)** and number **n** and then colors certain letters from the text according to input data received. You will read the following data:

* Text
* Red value
* Green Value
* Blue Value
* n-th letter

First, you have to convert the three **color** **values** (red, green, blue) into **hexadecimal format** and create a **valid** **RGB color** **(**e.g. **#ffffff, #ff0000).** Then you have to put **every n-th letter** from the input text in **<span></span>** tags and add the attribute **style="color: [rgbColor]"**.The entire text should be put in paragraph tags **<p></p>**.

For example we are given n-th letter **2,** RGB values **255, 0** and **0** and the word "**Hello**". We convert (255, 0, 0) to hexadecimal format **#ff0000** and color each n-th letter from the text (in this case, every 2nd letter). The result should be:

**<p>H<span style="color: #ff0000">e</span>l<span style="color: #ff0000">l</span>o</p>**

### Input

The input will be read from an **HTTP GET** **request**. The **text** will be received from a **text** **input field with name 'text'**. The **color values** will be received from **3** **text** **input fields** with names **'red', 'green' and 'blue'**. The **n-th word** will be received from a **text** **input field with name 'nth'**.

### Output

The resulting paragraph should exactly like in the example below. The hexadecimal values of the colors should be **lowercase** and **6 symbols long** (e.g. #000 should be #000000). Ensure all HTML special characters are correctly encoded by **htmlspecialshars()**.

### Constraints

* The **word value** will be a sequence of **ASCII characters** with **no empty spaces**.
* The **color values** will be integers in the range [0…255].
* The **nth letter value** will be an integer in the range [1…1000].

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | | **Output** |
| text | Hello | <p>H<span style="color: #ff0000">e</span>l<span style="color: #ff0000">l</span>o</p> |
| red | 255 |
| green | 0 |
| blue | 0 |
| nth | 2 |