# Problem 2 – The Numbers

*"The numbers, Mason, what do they mean?"*

We’ve just received a ton of unreadable signals from the International Space Station. We've lost all contact with the team up there, and all we got are these messages. Aliens? Might be. Can you please clear up the messages for us, so we can pass them to the decryption team?

Your job is to **clear the text from any unnecessary symbols** (only the numbers are needed) and **convert the remaining number sequences to hex format**. If a hex value has less than 4 characters, you need to **add leading zeros**. Finally, you need toplace a **"0x" prefix before each hex value** and **concatenate them all with dashes** '-'.

For example, we have the following message: "**5tffwj(//\*7837xzc2---34rlxXP%$**". After trimming the unnecessary data (non-numeric characters), we've got the numbers **5**, **7837**, **2** and **34** left. We convert them to hex: **5**, **1E9D**, **2**, **22**; add leading zeros where needed: **0005, 1E9D, 0002, 0022**, place 0x before each oneand concatenate them with dashes: **0x0005-0x1E9D-0x0002-0x0022**.

(Note: hex values *MUST* be uppercase)

### Input

The input data will be received as an **array**. It contains one argument – the initial message you need to transform.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

The output consists of only one line – the transformed message.

### Constraints

* The message will be no longer than 10000 characters.
* The message will consist of ASCII characters only.
* The numbers encoded in the message will be in the range **[0…65 535]**.
* Time limit: 0.3 sec. Memory limit: 16 MB.

*/\*\*  
 \* Created by User on 30.5.2017 г..  
 \*/***function** *solve*(input) {  
  
 **let** arr = [];  
 **let** result = [];  
 **let** pattern = /[0-9]+/g;  
 **let** match = pattern.exec(input);  
  
 arr.push(match);  
 **while**(match){  
 match = pattern.exec(input);  
 arr.push(match);  
 }  
  
 **for** (**let** i = 0; i < arr.**length** - 1; i++) {  
  
 **let** number = (Number(arr[i]).toString(16)).toUpperCase();  
 **let** total = **'0x'** + **'0'**.repeat(4-number.**length**) + number;  
 result.push(total);  
 }  
 **console**.log(result.join(**'-'**));  
}  
  
*solve*(**'5tffwj(//\*7837xzc2---34rlxXP%$”.'**);

### Examples

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
| 5tffwj(//\*7837xzc2---34rlxXP%$”. | 0x0005-0x1E9D-0x0002-0x0022 | 482vMWo(\*&^%$213;k!@41341((()&^>><///]42344p;e312 | 0x01E2-0x00D5-0xA17D-0xA568-0x0138 | 20 | 0x0014 |