# Problem 2 - Message Translator



Create a program that **checks** if **inputs** have a **valid command and string** and **translates** it. You will receive **n** count of strings. For each string, check if it's valid.

A string is **valid** when:

* The command is **surrounded by** **"!"**, **starts** with an **uppercase** letter, **followed** **only** by **lowercase** letters.
* The command Is **minimum 3 characters long**
* There is a **colon** after the command.
* There is a string **consisting of alphabetical** **letters** between square brackets **"["** and **"]"**.
* It must be **minimum 8** characters long.

**Example for a valid string:**

**"!Send!:[IvanisHere]"**

You must **check** if the **string** is **valid** and if it **is** - **translates** it. If it **isn't** - **print** the following **message**:

**"The message is invalid"**

**Translating** a **string** means taking **all** **letters** from the string and **turn** them **into** **ASCII** **numbers**. After successful translation, print it in the following format:

**"{command}:{number1} {number2} … {numberN}"**

**Note: Translate only the text in the string. If you have "[Ivan is Here]", the part that you need to translate is "Ivan is Here".**

### Input

* On the **first** line, you will receive an integer **n** - the count of inputs.
* On the next **n** lines - **input** that you must **check** if it has a **valid** **string**.

### Output

* Print the result in format described above.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 2  !Send!:[IvanisHere]  \*Time@:[Itis5amAlready] | Send: 73 118 97 110 105 115 72 101 114 101  The message is invalid |
| 3  go:[outside]  !drive!:YourCarToACarWash  !Watch!:[LordofTheRings] | The message is invalid  The message is invalid  Watch: 76 111 114 100 111 102 84 104 101 82 105 110 103 115 |

**JS Examples**

The input will be provided as an array of strings.

|  |  |
| --- | --- |
| **Input** | **Output** |
| (["2",  "!Send!:[IvanisHere]",  "\*Time@:[Itis5amAlready"]) | Send: 73 118 97 110 105 115 72 101 114 101  The message is invalid |
| (["3",  "go:[outside]",  "!drive!:YourCarToACarWash",  "!Watch!:[LordofTheRings]"]) | The message is invalid  The message is invalid  Watch: 76 111 114 100 111 102 84 104 101 82 105 110 103 115 |