# Problem 1 – Decrypting Commands



On the first line, you are going to **receive** **a string**. You will receive **"decrypting" commands** on the **following lines** until you get the "**Finish**" command. There are **five** possible commands:

* **"Replace {currentChar} {newChar}"**
  + **Replace** all occurrences of the current char with the new char, then **print** the **resulting message**.
* "**Cut {startIndex} {endIndex}"**
  + **Remove** the substring from the start index until the end index (both inclusive),then **print** the **resulting message**.
  + If any of the indexes is not valid, **print: "Invalid indices!"**.
* "**Make {Upper/Lower}"**
  + **Replace** all letters with **upper/lower** case and **print** the **resulting message**.
* **"Check {string}"**
  + If the message contains the given string, print: **"Message contains {string}"**.
  + Otherwise, print: **"Message doesn't contain {string}"**.
* "**Sum {startIndex} {endIndex}"**
  + Get the **substring** from the start index to the end index (both inclusive) and **print** the **sum of the ASCII values of the substring**.
  + If any of the given indices are invalid, print**: "Invalid indices!"**. **An index is valid** when it is **non-negative and less than the size of the collection**.

**Note: At any time, the message will contain at least one character.**

### Input

* On the **first line,** you are going to receive the **string**.
* On the following **lines**, until the **"Finish"** command is received, you will be receiving commands.

### Output

* **Print** the **output** of every **command** in the **format** **described** **above**.

### Constraints

* The **indexes** will be integers in the range **[-50…150]**.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| ILikeSoftUni  Replace I We  Make Upper  Check SoftUni  Sum 1 4  Cut 1 4  Finish | WeLikeSoftUni  WELIKESOFTUNI  Message doesn't contain SoftUni  293  WESOFTUNI |
| HappyNameDay  Replace p r  Make Lower  Cut 2 23  Sum -2 2  Finish | HarryNameDay  harrynameday  Invalid indices!  Invalid indices! |

### JS Examples

The input will be provided as an array of strings.

|  |  |
| --- | --- |
| **Input** | **Output** |
| (["ILikeSoftUni",  "Replace I We",  "Make Upper",  "Check SoftUni",  "Sum 1 4",  "Cut 1 4",  "Finish"]) | WeLikeSoftUni  WELIKESOFTUNI  Message doesn't contain SoftUni  293  WESOFTUNI |
| (["HappyNameDay",  "Replace p r",  "Make Lower",  "Cut 2 23",  "Sum -2 2",  "Finish"]) | HarryNameDay  harrynameday  Invalid indices!  Invalid indices! |