# Mini Exam: Strings and Text Processing

You can check your solutions here: <https://judge.softuni.bg/Contests/3178/Additional-Exercises>.

## Calculations with Characters

Make a program that takes **two strings** from a single line, separated with space, and returns the **sum** of their **character codes** **multiplied** (**string1[0]** \* **string2[0]** **+** **string1[1]** \* **string2[1] + … and so on**). Continue with the next couple of characters. If one of the strings is **longer** than the other, **add** the **remaining** character codes to the **total** **sum** without multiplication.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| Ivan Maria | 39772 |
| 823 562 | 8218 |
| abb aaaa | 28518 |

## Reduce Characters

Make a program that recieves a string in a single line and **replaces** any **sequence of repeating characters** with a **single** **corresponding letter**.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| abbbaaabbcddeeeddedssaa | ababcdededsa |
| qqqwerqwecccwdddc | qwerqwecwdc |

## 3. Find Data

Make a program that first receives **N** – the number oflines with hidden personal data in strings and then the data lines. You need to find someone`s **name** and **age** in each line. Each **name** starts after a ‘**@**’ symbol and has ‘**|**’ in the end. Each **age** starts after a ‘**#**’ symbol and ends with ‘**\***’ symbol.

**Example: "It`s me @Maria| who is #25\* years old."**

**For each** found name and age **print** a line in the following format:

**"{name} is {age} years old."**

### Example

|  |  |
| --- | --- |
| **Input** | **Output** |
| 2  Here is a my name @Gosho| and this is my age #38\*  This name is name @Lolly| her age #15\* | Gosho is 38 years old.  Lolly is 15 years old. |
| 3  random name random @Milly| random #3\* random age  @bobby| is it age is #17\*  My name is @Brown| I am #32\* years old | Milly is 3 years old.  bobby is 17 years old.  Brown is 32 years old. |