

# Mini Exam: Strings and Text Processing

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

## 1. 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

## 2. Reduce Characters

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

### Examples

Input	Output
abbbbaabbcddeeeddedssaa	ababcbdededsa
qqqwerqwecccwdddc	qwerqwecwdc

## 3. Find Data

Make a program that first receives **N** – the number of lines 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.

