# Problem 2 – Letters, Symbols, Numbers

You are given **N strings.** Every string consists of letters, symbols, numbers and whitespace. All letters (**a-z**) and (**A**-**Z**) have values corresponding to their position in the English alphabet \* 10 (**a = 10, A = 10, b = 20, B = 20, …, z = 260, Z = 260**). All symbols (like **`~!@#$%^&\*()\_+{}:"|<>?-=[];'\,./**) have a fixed value of **200** and all numbers have the value of their digit \* 20 (**0 = 0**, **1 = 20**, **2 = 40**, **3 = 60**, …, **9 = 180**). The whitespace is ignored. Your task is to calculate the **sum** of all **letters**, all **symbols** and all **numbers** from the input and print them, each on a separate line.

### Input

The input data should be read from the console.

* At the **first line** an integer number **N** is given, specifying the count of the input **strings**.
* Each of the next **N lines** holds an **input string**.

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

### Output

The output should be printed on the console. It should consist of **exactly 3** lines:

* On the **first** **line** print the **sum** of all **letters**.
* On the **second** **line** print the **sum** of all **numbers**.
* On the **third** **line** print the **sum** of all **symbols**.

### Constraints

* **N** is an integer between in range [0… 1000].
* All of the strings combined have a maximal length of 255 000 characters.
* All characters, which are not Latin letters or whitespace, are considered **symbols**.
* The whitespace are the symbols '', '**\t**', '**\r**' and '**\n**'.
* Allowed working time for your program: 0.2 seconds.
* Allowed memory: 16 MB.

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 1 aaa.zzz.123 | 810  120  400 | The string has 6 letters: 3\*a + 3\*z = 3\*10 + 3\*260 = 30+780 = 810; 3 numbers: (1+2+3) \* 20 = 120 and 2 symbols (dots): 2 \* 200 = 400. |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
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