# Problem 1 – Computer Smuggler

Long ago, **before there was software**, Nakov was **bored** and used to take the train from Veliko Tarnovo to Pravetz to **buy parts for Pravetz 82 computers**. Then he used to go back to Veliko Tarnovo to attend school. With the parts he **assembled 8-bit computers** and **smuggled them across the border**. He used to sell them to the **US Secret Government** because they were in **great need of super computers** like **Pravetz 82.**

He tried to calculate if he was gaining profit from his smuggling or losing money. But he wasn't that good at maths so he couldn't do it. Fortunately he kept all the information about his matters. **Help Nakov** find out if he **gained money** back then by **writing software that calculates that**.

The **Pravetz 82 computer's** main parts are **1 MHz CPU, 16 KB ROM, 16 KB RAM, Versatile Interface Adapter (VIA).**

You will read the following data: **a list of computer parts** that Nakov bought. He assembles a computer by using one part from each type (**1 CPU + 1 ROM + 1 RAM + 1 VIA = 1 computer**). Each part costs as follows: **CPU – 85 leva, ROM – 45 leva, RAM – 35 leva, VIA – 45 leva.** If he had bought **5 or more parts from one type**, he used to get **50% discount** for **that type** of parts **only**. When he assembles a computer, he **sells it for 420 leva**. If there were any **parts left** after assembling as much computers as possible, he sells them on **half the initial price**. Your task is to find out **if he gained money or lost money**.

### Input

The input will be read from an **HTTP GET** **request**. The **list of parts** will be received from a **text** **input field with name 'list'**.

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

### Output

Output must consist of an unordered list with two list items and a paragraph. The first list item contains **"{0} computers assembled"**, where {0} is the **number of computers** assembled. The second list item contains **"{1} parts left"**, where {1} is the **number of the parts that didn't get in use**. Below the list there is a paragraph, that contains "**Nakov gained {2} leva"** if {2} > 0 or "**Nakov lost {2} leva"** if {2} <= 0, where {2} is the amount of money Nakov has after the entire activity is finished.

### Constraints

* The **list of parts** will be one string
* The **number** of the parts will be in the range [1…500]

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | | **Output** |
| list | CPU, RAM, VIA, ROM, RAM, RAM, CPU, CPU, CPU, VIA, ROM, ROM, CPU | <ul>  <li>2 computers assembled</li>  <li>5 parts left</li>  </ul>  <p>Nakov gained 465 leva</p> |
| **Comment** | | |
| We have 5pcs CPU, 3pcs ROM, 3pcs RAM, 2pcs VIA. He paid 5\*85/2 = 212.5 leva for the CPU; 3\*45 = 135 leva for the ROM; 3\*35 = 105 leva for the RAM; 2\*45 = 90 leva for the VIA. He paid in general 212.5 + 135 + 105 + 90 = 542.5 leva. He assembled 2pcs computers and sold them for 2\*420 = 840 leva. He sold the parts he couldn't use for 3\*85/2 + 1\*45/2 + 1\*35/2 = 167.5 leva. In general he paid 542.5 leva and gained 840 + 167.5 = 1007.5 leva.Finally he gained 1007.5 – 542.5 = 465 leva. | | |