# DHARMA Supplies

The periodic resupply drop is the name given to a DHARMA Initiative procedure in which new provisions and supplies are parachuted onto the Island from the DHARMA Logistics Warehouse.

Horace Goodspeed, the leader of the DHARMA Initiative on the Island, has asked you to help him **identify** and **collect** all parachuted supply crates.

You will start receiving **strings**, represinting different parts of the Island, until “**Collect**” command is received. The plane dropped many supply crates, all over the Island. Your task is to search in every part of the Island for the supplies, but be careful, the Hostiles poisoned some of the delivered crates.

A **supply crate** must start with an opening bracket "**[**", may have a **supply tag**(tag may be valid, may be not), may have a **supply body**, after the body must have the **exact same** supply tag and a closing bracket "**]**".

**Example**: "**[**{**supplyTag**}{**supplyBody**}{**supplyTag**}**]**"

There are two types of valid supply **tags**:

* **Food tag** - starts with "**#**" and has **N** digits(Ex: **#123**)
* **Drinks tag** - starts with "**#**" and has **N** **lowercase** english alphabet letters(Ex: **#asdf**)

**N** will be a positive integer calculated by the following formula:

* **number of ALL crates** / **number of Island parts**(inputlines).

**N** is representing the length of **all valid** supply tags. Any different length makes the tag invalid. Invalid tag means poisoned crate.

**Supply bodies** of the crates may contain english alphabet **letters** and/or **digits** and/or one or many **whitespaces**.

After all food and drink supply crates are collected, your task is simple. **Calculate** and **print** the **number of valid supply crates** collected, **amount of food** and **amount of drunks**. If **no** valid crates are found, print “**No supplies found!**”.

* The **amount of food** in the food crates is calculated by **multiplying** the **sum** of the supply body **unique** ascci codes with the **length** of the **supply tag**(without the "**#**").
* The **amount of drinks** is calculated by **multiplying** the **sum** of the supply body ascci codes with the **sum** of the supply tag ascii codes(without the "**#**").

# Input

* Until “**Collect**” is received, you must read input lines representing Island parts.

# Output

* If you found some **valid** supplies, as output you must print **three** lines:

1. **Number of valid supply crates** collected in format: “**Number of supply crates:** {number of supply crates}”
2. **Amount of food** found in the crates: “**Amount of food collected:** {amount of food}”
3. **Amount of drinks** found in the crates: “**Amount of drinks collected:** {amount of drinks}”

* If no crates found, as output you must print a single line: “**No supplies found!**”

# Constrains

* The **crates** will always start with “**[**“ and end with “**]**”.
* The **supply body** may contain english letters, numbers and one or many whitespaces.

# Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| I <3 [#2017softuni#2017]!!!![#2beer#2]!!  machkai [#gRISHO#g]  Collect | Number of supply crates: 2  Amount of food collected: 313  Amount of drinks collected: 40067 | Number of all crates: 3  Number of lines: 2  **N**: 3 / 2 = 1  Valid crates: [#2beer#2] [#gRISHO#g]  [#2beer#2] => (b + e + r) \* 1 = 313  [#gRISHO#g] = (R + I + S + H + O) \* g = 40067 |
| Bat Gi[##]orgi....  Zadyshawa[]m  Sa[#zzBasS#zz]  Collect | No supplies found! | 3 crates found, no valid ones. |