# Problem 4 – Hit List

One final task for Sam before he gets to go home... Data mining!

Sam will receive info about one or several people in the format

* “{name}={key}:{value};{key}:{value};…”.

The goal here is to **group** the info for every person by their **name**. If a **key** is received **multiple times**, keep **only the most recent value**.

On the last line, you will receive “Kill {name}”. Your task is to find all the info on that name and print it, **ordered alphabetically by key**.

Then, Sam needs to build a so-called **info index** on them. The **info index** is comprised of the **sum** of all the **keys’ lengths** and **values’ lengths** of that person’s info.

If the **info index** is **larger or equal to** the **target info index** (given on the **first line** of input), print “Proceed”. Otherwise, print “Need {infoNeeded} more info.“.

## Input

* On the **first line**, you will receive the **target info index**, an **integer** in the **range[25-90]**
* Until you receive the text “end transmissions”, **keep readingnew lines** with information.
* On the final line, you will receive “Kill {name}”

## Output

* On the first line, print “Info on {name}:”.
* On the next lines, print “---{info}: {value}”
* On the next line, print “Info index: {infoIndex}” with the **info index** of the selected person.
* On the final line, print either “Proceed” or “Need {infoNeeded} more info.”, depending on whether the info is **enough** to carry out the hit or not.

## Constraints

* There will **always** be at least **one** name in the input.
* Each name will **always** have **one or severalkey/value** pairs associated with it.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 30  Kobin=age:20;salary:700  Grimsdottir=salary:5000  Kobin=education:High School  end transmissions  Kill Kobin | Info on Kobin:  ---age: 20  ---education: High School  ---salary: 700  Info index: 34  Proceed |
| 20  Lambert=age:57;salary:7000  Grimsdottir=salary:5000  John=salary:1550  John=lastName:Smith  John=salary:1800  Kobin=education:High School  end transmissions  Kill Lambert | Info on Lambert:  ---age: 57  ---salary: 7000  Info index: 15  Need 5 more info. |
| 25  Bill=salary:900;lastName:Billov  Kobin=salary:1300  Kobin=education:High School  end transmissions  Kill Bill | Info on Bill:  ---lastName: Billov  ---salary: 900  Info index: 23  Need 2 more info. |