# 03. MISSION

*One of the task for the agent candidates is to decrypt the intercepted list of missions and their ratings.*

Your task is to decrypt the list and print the missions and their ratings. You will be given decrypted lines, which will contain the name of the mission and it`s rating. You will also receive whether the mission is a complete or failed. After you receive a command **Decrypt**, you have to print the information about the **completed mission with** **biggest rating and the failed mission with biggest rating.** To be valid, a line should contain the following:

* Contain the word **“MISSION”** in it. Between each character, there might be some other characters. **If the line does not contain that word, it is considered invalid.**
* All the **lower-case letters** will be **the name of the mission**.
* The **sum of all digits** will be **mission`s rating.**
* If the string contains **“C”** the mission is considered completed, if it contains **“X”,** it is considered failed. (the input will **always contain** **one** of the characters)

**Example: “MbIS2omSb68fIiO468Ce9ldN” –** this is a valid example; it contains the word **MISSION,** the name of the mission is **bombfield,** and the rating is: **2 + 6 + 8 + 4 + 6 + 8 + 9= 43;** it also contains the letter **“C”**, which makes it a completed mission.

### Input / Constrains

* You will receive encrypted lines of input until you receive **“Decrypt”**
* the input will always be **valid** (no whitespaces)
* there will always be at least **one complete** and **one failed mission**

### Output

* On the first line print **“Completed mission {mission name} with rating: {rating}”**
* On the second line print **“Failed mission {mission name} with rating: {rating}”**

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| MbIS2omSb68fIiO468Ce9ldN  59Mmy#c4oS^p12C%3XlaIs$4mO!a  Mt56rIa#12ck$SXiSnIg%ON463  ro7Mck4IetS561VlauSInO$c#h24N^  Decrypt | Completed mission bombfield with rating: 43  Failed mission tracking with rating: 27 |
| **Comment** | |
| The first line is valid and the mission is completed (**bombfield**). The mission's rating is **43**. The **second line is invalid** since it **does not contain the word “MISSION”.** The **third line is also valid**: failed mission (**tracking**) with rating **27**. The **last line is also valid**: completed mission with rating **29**. We print the **bombfield for our completed mission since it has biggest rating of all completed mission that we encountered**. The **tracking is our only failed mission,** so we print it. | |
|  | |
| **Input** | **Output** |
| aM#@n%aXpIla4554sSmaS%#1N  M#Is5S6CpS%&IO655#^321\*Ny  143cMIlo^4CsStr@Si$4I6dRi\*O(9)uNm  Mp%rX@eIsiS&\*dentSguIaOrdNi76n3g  M(\*8I234C^$#53ToEVlRiI64I  Mho@#I4sS^6CtS\*ag^IO12)3N(%9es  MbIo5\*+S3$4-7mS@bIf^iOe#X4l\*8N!d  M24I2^45kCle%bTsi#E$elRl^I\*XIa  34MmyI6cCoT3bE45aR2ctXer4Ii3A12um  Decrypt | Completed mission spy with rating: 33  Failed mission bombfield with rating: 31 |