

## 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:** **"MbIS2omSb68fliO468Ce9IdN"** – 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
MbIS2omSb68fliO468Ce9IdN	Completed mission bombfield with rating: 43
59Mmy#c4oS^p12C%3Xlals\$4mO!a	Failed mission tracking with rating: 27
Mt56rla#12ck\$XISnlg%ON463	

ro7Mck4letS561VlauSlnO\$c#h24N^	
Decrypt	
Comment	
<p>The first line is valid and the mission is completed (<b>bombfield</b>). The mission's rating is <b>43</b>. The <b>second line is invalid</b> since it <b>does not contain the word "MISSION"</b>. The <b>third line is also valid</b>: failed mission (<b>tracking</b>) with rating <b>27</b>. The <b>last line is also valid</b>: completed mission with rating <b>29</b>. We print the <b>bombfield for our completed mission since it has biggest rating of all completed mission that we encountered</b>. The <b>tracking is our only failed mission</b>, so we print it.</p>	

Input	Output
aM#@n%aXpIla4554sSmaS%#1N	Completed mission spy with rating: 33
M#Is5S6CpS%&IO655#^321*Ny	Failed mission bombfield with rating: 31
143cMllo^4CsStr@Si\$4I6dRi*O(9)uNm	
Mp%rX@elsiS&*dentSgulaOrdNi76n3g	
M(*8I234C^\$#53ToEVIRil64I	
Mho@#I4sS^6CtS*ag^IO12)3N(%9es	
Mblo5*+S3\$4-7mS@blf^iOe#X4I*8N!d	
M24I2^45kCle%bTsi#E\$elRI^I*Xla	
34Mmyl6cCoT3bE45aR2ctXer4li3A12um	
Decrypt	