# Problem 2 – Lost Artifacts



*As a skilled treasure hunter, you're on an expedition to unearth ancient artifacts hidden around the world. Legends say these artifacts are protected by coded inscriptions that reveal their locations when deciphered.*

You've come across ancient scrolls containing **encrypted messages** about the **locations** of these artifacts. To discover where each artifact is hidden, you must **decode** these messages by following specific rules:

* Artifact Name:
* **Surrounded** by one or more "\*" or "^" (they don't have to be the same on both sides).
  + Consists only of **mixed case** alphabetical letters and can **include** **spaces**.
  + Must be at least **6 characters** long including the spaces.
* Coordinates:
  + Always positioned **after the artifact name**.
  + There **may** or **may not** be other **non-alphabetic**, **non-digit** characters **between the artifact name** and the coordinates. If there are alphabetic or digit characters directly separating them, the message is considered corrupted.
  + Enclosed by sequences of the symbol **"+"**.
  + Contains **comma-separated** values (digits, decimal separator ".", or "-") representing latitude and longitude (e.g., 34.807,-40.479).
* **Message validity:** If either the artifact name or the coordinates are **not valid** according to the rules, the entire **message is disregarded**.

Examples of valid messages: \***Lost Crown\*+++34.807,-40.479+++**, **^Ancient Sword^++++48.8566,2.3522++++,**

**\*Golden Statue^!!!+12.492,99.901+**

Examples of invalid messages: Idol++48.858,2.294++, ^Relic^48.853,-2.3498+,

Mysterious Relic+++120,200+++

Read through the provided text and identify all valid messages.

Print each found message in the format: **"Found {artifact name} at coordinates {coordinates}."**

If the message contains no valid artifacts, print **"No valid artifacts found."**.

## Examples

* You will receive a string.
* Print the proper output messages in the proper cases as described in the problem description.

|  |
| --- |
| **Input** |
| **\*Lost Crown\*+++34.807,-40.479+++^Ancient Sword^++++48.8566,2.3522++++\*Golden Statue\*!!!+12.492,99.901+** |
| **Output** |
| Found Lost Crown at coordinates 34.807,-40.479.  Found Ancient Sword at coordinates 48.8566,2.3522.  Found Golden Statue at coordinates 12.492,99.901. |
| **Input** |
| **\*Idol\*++48.858,2.294++^Relic^48.853,-2.3498+\*&Mysterious Relic\*+++120,200+++** |
| **Output** |
| No valid artifacts found. |

## JS Examples

* The input data will be an array with only one string in it.
* Print the proper output messages in the proper cases as described in the problem description.

|  |
| --- |
| **Input** |
| (['**\*Lost Crown\*+++34.807,-40.479+++^Ancient Sword^++++48.8566,2.3522++++\*Golden Statue\*!!!+12.492,99.901+**']) |
| **Output** |
| Found Lost Crown at coordinates 34.807,-40.479.  Found Ancient Sword at coordinates 48.8566,2.3522.  Found Golden Statue at coordinates 12.492,99.901. |
| **Input** |
| **(['\*Idol\*++48.858,2.294++^Relic^48.853,-2.3498+\*&Mysterious Relic\*+++120,200+++'])** |
| **Output** |
| No valid artifacts found. |