# Problem 4 – Libraries

Create a program that keeps track of all libraries in the country. You should keep information about each library – its name, where it is based and what books it has.

There are three possible commands:

* "Library:{libraryName}:{townName}" – You have to add the library to the records.
* "Book:{bookName}:{libraryName}" – You have to add the book to the library, if it exists. Otherwise print "**Library {libraryName} does not exist!**"
* "Done" – You have to print the output in the format given below and stop the program.

After receiving "Done" print each of the libraries, in the following format:

Library {libraryName}, based in {townName}:

{bookName1}, {bookName2}, {bookName3}, … {bookNamen}

## Input

Until you receive "Done" you will be receiving command in the format given above.

## Output

Print the appropriate message if a library doesn’t exist when trying to add a book to it.

After the "Done" command print each of the libraries, in the following format:

* Library {libraryName}, based in {townName}:
* {bookName1}, {bookName2}, {bookName3}, … {bookNamen}

## Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| Library:BookWorld:Sofia  Book:Harry Potter:BookWorld  Book:Alice in Wonderland:BookWorld  Done | Library BookWorld, based in Sofia:  Harry Potter, Alice in Wonderland | We create the library with name BookWorld, which is based in Sofia. Then we add 2 books in it. |
| Library:Panorama:Burgas  Book:The Target:Panorama  Book:Light:BookWorld  Library:BookWorld:New York  Book:Light:BookWorld  Done | Library BookWorld does not exist!  Library Panorama, based in Burgas:  The Target  Library BookWorld, based in New York:  Light | We try to add a book to a library that does not exist and we receive the error message. Then, we create the library and add the book. |