The pseudocode I have written is a mix of C++ and python syntaxes. The lines, which begin with hashtags and are underlined are comments.

Solution:

SET libraryBooks TO [book1, book2, book3, book4, book5, book 6, book7, book8, book9, book10]

We start by creating an array, containing all books available in the library. The books shown in this pseudocode would be objects, with all the necessary attributes: bookTitle, quantityAvailable, etc..

message1 = "We found the book you are looking for. Enjoy it."

message2 = "We are sorry, the book you are looking for is currently out of stock. You could try again in a few days."

message3 = "We do not have the book you are looking for in our library."

Here we predefine the different outputs, our program can give to a future search, made by a client.

totalBooks = len(libraryBooks)

We get the total number of books (as titles) available in the library - length of the array.

for (int j=0, totalBooks, j++):

    currentBook = libraryBooks[j]

    print(currentBook.bookTitle)

    print(currentBook. *quantityAvailable*)

Here we use a FOR loop to iterate through the array, which contains all books (as titles). "j" represents the index of the "currentBook" within the array "libraryBooks". And then it prints/shows the title of the "currentBook" and it's "quantityAvailable". The loop iterates and shows all books in existence, so the client can choose, which one to pick.

userInput = input()

This line of code takes input from the user. The library's client must type the title of the book, he would like to obtain.

index = 0

bookFound = False

while index < totalBooks:

currentBook = libraryBooks[index]

index++

if userInput == currentBook.title:

bookFound = True

if currentBook.quantityAvailable > 0:

print(message1)

currentBook.quantityAvailable --

else:

print(message2)

break

if bookFound == False:

print(message3)

"bookFound" still has the value False. If so, it would mean that the book requested by the library's client is not part of the array (does not exist in the library) and a message, informing the user of that, is printed.