

Implement the following:

1 . Implement Class Bookstore:

Attributes

- · location: String: The location of the bookstore.
- noBook: int: Number of book in the bookstore.
- sections: String[]: An array containing the name of sections of the bookstore.
- nbS: int: the current number of sections in the bookstore.

Methods

- Bookstore(loc: String, n: int, size: int): A constructor to initialize the bookstore information:
  - o loc: is the location
  - o n; is the number of book.

o size: is the max number of sections the bookstore can have.

If the number of books is less than zero or more than 5000 an InvalidNumberofBook exception should be generated and caught in the same environment. You should allow the user to re-enter the number of book until it is valid.

- toString(): String: Returns an appropriately formatted string containing the bookstore information and all section names.
- addSection(s: String): boolean: Adds the received section name to section array. Returns true if section is added successfully, false otherwise. 1 my much
- 2 . Define a new unchecked exception of type InvalidNumberofBook.
- 3. Create a new Application class with a main method to perform the following:

Your main() should catch the possible exceptions that may occur during processing files.

- (a) Create a list for Rivadh bookstores named BoSList.
- b) Add new three bookstores to the list of Riyadh's Bookstores. Ask the user to enter: location, number of books, size. Also, ask the user how many sections he would like to add, then read
- c) Read the information of more bookstores from the text file: "MoreBookstore.txt". Add the bookstores to the list of Riyadh bookstores. In the text file, the information for each bookstore
- is on three lines containing; location, noBook, and size in turn.
- (d) Remove one bookstore that is located at "KSU", then print an appropriate message.
- (e) Add a new section named "Computer" to all Big bookstores.
- Copy all Regular bookstores from the list to the first empty location in a new array named RArray. Then, print the number of Regular bookstore.
  - g) Create an object file named "RegularBookstores.dat" and store all Regular bookstores a
- h) Print the complete information of all bookstores in Riyadh.