





es List and Node have already been implemented for you, you need to use them property. efine a new checked exception of type InvalidFeeException. mplement Class Conference:

Attributes

- cName: String: The name of the Conference.
- cID: int: The id of the Conference.
- paperArr: String[]: An array containing title of papers participating in the Conference. • fee: double: Conference's fee.
 - nbP: int: An integer referring to the actual number of papers participating in the Conference.

Methods

- Conference(name: String, id: int, fee: double, size: int): Constructor to initialize the Conference information.

 - An InvalidFeeException should be generated and thrown to the calling environment • Hint: size is the length of the array. addPaper(title: String): boolean: Adds the received paper's title to the first empty location in

 - paperArr. Return true if the paper is added successfully, false otherwise.
 - checkC(c: Conference): boolean: Compares this Conference to the received Conference. The result is true if and only if c is not null and c has the same id and name as the current toString(): String Returns the Conference's information (including all papers) in a string.
- This method returns an array containing the conferences (from the list) which have a fee le 3. Implement the method cheapConferences() in class List: 1000 SR.



e a new Application class named (TestList) with a main method to perform the lon

Using the class List, create a stack of Conferences named cList.

b. Add two conferences to the list. Ask the user to enter their information. If the fee is invalid allow the user to re-enter until a correct value is read. (You need to use the appropriate

Create a conference object name con3 with the following information and add it to cList: methods).

methods).	object name con3 with the ton
Create a confer	Artificial Intelligence International Conference
cName	52114
cID	3000 {"Bioinformatics", "Cognitive systems"}
fee	{"Bioinformatics,
paperArr	10 m to the paper Arr in the confer

d. Add a new paper named "Ethics in AI" to the paper Arr in the conference with ID 22112

- e. For each Conference in cList do the following:

- f. Read the information of new conferences from a text file named "newConf.txt" and add the conferences to CList. Each line in the file contains the information of a single conference ordered as follows: name (String) ID (int) fee (double) size (int).

- Your program should work properly regardless of the number of conferences in All conferences in the file have an empty papers array.

g. Print the information of the conferences that have a fee less than 1000 SR. h. Display a meaningful message indicating if the conference con3 exists in clist or not. Note: Your main method should handle all possible exceptions by displaying a meaningful message.