CSC113

Lab 1: Array of Objects

Student
- id : int
- name : String
- age : int
+ Student()
+ Student(int, String, int)
+ setId(int) : void
+ setName(String) : void
+ setAge(int) : void
+ getId() : int
+ getName() : String
+ getAge() : int

Section
- course : String
- studentList : Student[]
- nStudents : int
+ Section(String, int)
+ searchStudent(int) : int
+ addStudent(int, String, int) : void
+ deleteStudents(int) : void
+ printList() : void
+ main(String[]) : void

1. searchStudent: This method should search the list for a student using his id and return the index if he's there.

2. addStudent: This method should add the student to the section only if there's space and the student isn't already on the list.*

3. deleteStudent: This method should delete the student from the section using his ID if he's on the list and shifts the list maintaining its order.*

4. printList: This method should display the list of students in the section.

*These methods should print out messages whether the operation was successful or not

In the main method, create a section for course CSC113 with a small list of students e.g. 3, display the list, remove a student from the middle of the list, then display the list one more time.