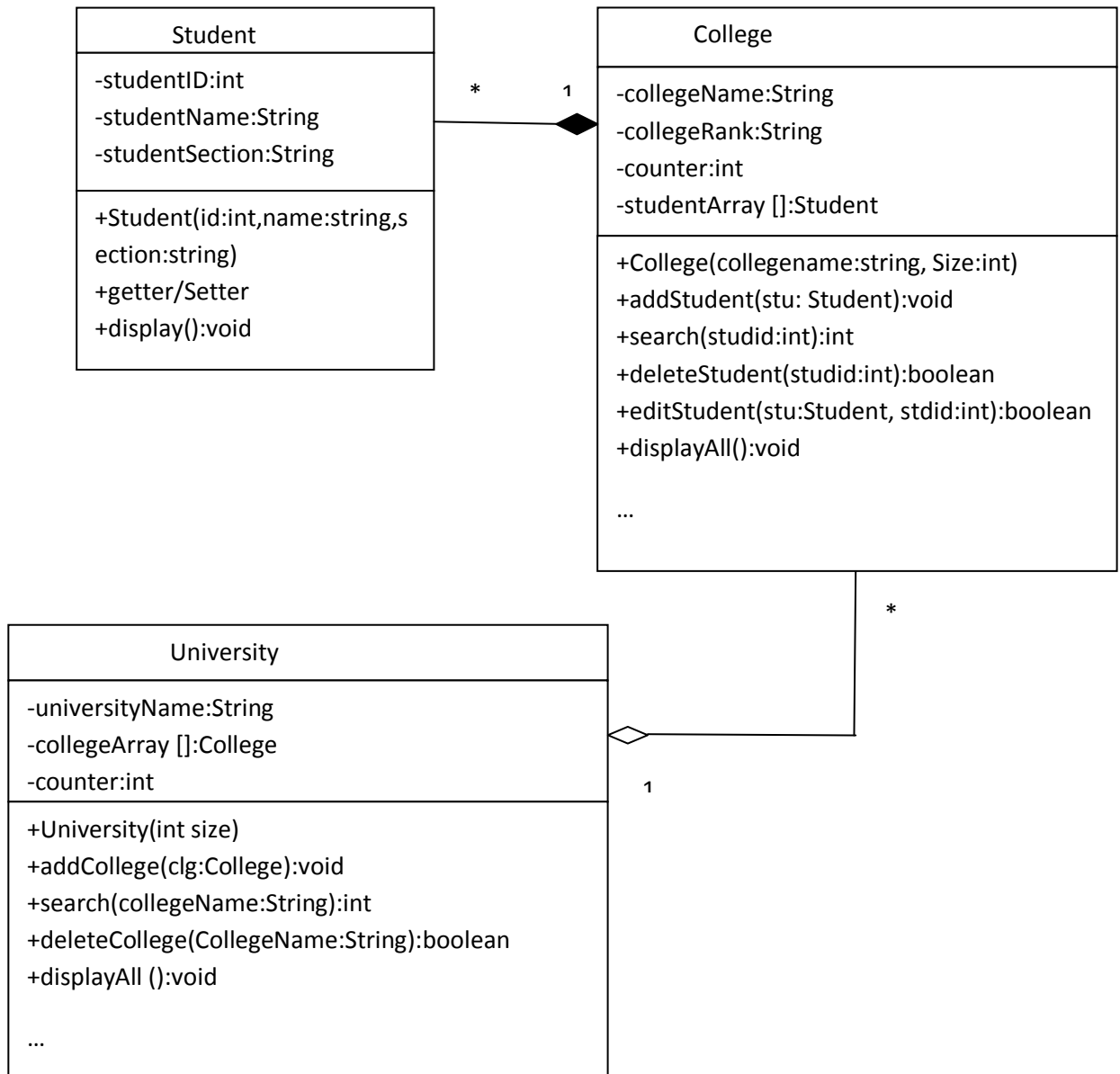


Lab : 4
Relationship Between Classes
College of Computer and Information Science
King Saud University



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Relationship Between Classes
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Write a Java Code for the class Student, College and University.

Class Student:

Attribute:

Studentid, Studentname, StudentSection

Constructor:

Student: Pass the parameter value to each Attribute

Methods:

Getter/Setter:

Create the get and set method to each and every attribute

DisplayAll: Displays student id name and section

Class College:

The college is autonomous body can exists without University

Attribute

CollegeName, CollegeRank, Counter, ArrayStudent

Constructor:

Pass the size of Array through constructor

Methods:

AddStudent(Student:stu):void: Add the attributes of class student by passing parameter as object

Search(studid:int):int : The search method takes id and returns the index.

DeleteStudent: Removes the student by using the index.

EditStudent: Take the id of the student and change the name and section

The class University has the same functionality as College.

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Write the class main to test the above functions of college and university (you may consider the following scenario):

- Create 6 different students.
- Create 3 colleges.
- Add the students to the colleges (student 1&2 with college 1, student 3&4 with college 2, student 5&6 with college 3).
- Create a University object.
- Add the two colleges to the university.
- Display All (from the university object).
- Delete student 1 & 5.
- Display All (from the university object).
- Delete college 2.
- Display All (from the university object).