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| **Problem**: Implement a class to represent a College Student. |
| A new College Student may be a *true freshman*, or a *transfer student* bringing up to 60 credits previously earned at another college. Provide the following functionality:QUERIES* The number of *transfer credits*
* The number of *earned credits*
* *GPA* (grade point average), based on earned credits only
* *year* (based on total credits): ***freshman*, *sophomore*, *junior*, *senior***
* graduation *eligibility*: at least 120 total credits, GPA at least 2.0

UPDATESA student’s status is updated whenever they complete a course. The information provided are 1) the number of *course credits*, 2) student’s *letter grade*, **A**, **B**, **C**, **D** or **F** for the course. |

**Year** **Credits** **Letter Grade** **Grade Points**

Freshman < 30 **A** 4

Sophomore 30 … 59 **B** 3

Junior 60 … 89 **C** 2

Senior >= 90 **D** 1

 **F** 0

**College Student**

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| **Class Name** CollegeStudent |
| **State*****variables*** **int** transferCredits **int** earnedCredits **int** gradePoints |
| **Initialization*****constructors*** CollegeStudent() CollegeStudent(**int** credits) |
| **Behavior*****accessor methods*** **int** getTransferCredits() **int** getEarnedCredits()***mutator methods*** **void** completeCourse(**int** credits, **char** grade)***other methods*** **double** gpa() String year() **boolean** isGraduationEligible() |