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Problem: Design a course registration platform
Thing(Object)/Entity:
        Information(Data)/(State):
        Services(Behaviors)/Actions
Thing:
        Student:
                Data:name, id, registerredCourse(collection of course)
                Behaviors: addToRegisterredCourse,
removeFromRegisteredCourse
        Course:
                Data:name, courseid, prerequisite, belongTerms,
availableSpace, courseInfo
                Behaviors: isOpen()
        CourseSearchService:
                Behaviors: search{searchByCourseId(), searchByName()}
        CourseRegisterService:
                Data:
                Behaviors:registerCourse()
        LoginToPlatformAuthService
Sequence of invoking behaviors on objects:
        Student student
        Course course
        CourseSearchService searchService
        CourseRegisterService registerService
        student.LoginToPlatformAuthService -> plaform: authorize
        if (authorize is true):
                searchService.searchByCourseId() -> courseId: course
                if (course.isOpen() && course.availableSpace() >= 1)
                        if (student.finishedCourse()->
course prerequisite)
                                registerService.registerCourse() ->
student.id, course.id
                                course.availableSpace -= 1
                                student.addToRegisterredCourse() ->
course
                else
                        student.canNotRegister()-> course
                if (student.wantCancelClass)
                        student.findRegisteredClass -> courseId:
wantToCancelledCourse
                        student.removeFromRegisteredCourse ->
wantToCancelledCourse
                        wantToCancelledCourse.availableSpace++
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 $\verb|student.canNotRegisterAllCourses()|\\$