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-----Design a Course Registration Platform-----
Objects and Behaviors:
 Student
      Data: name, studentID, emailAddress, password, subject, grade
      Behaviors: login, logout, search, add, drop, browse
 Teacher
      Data: name, teacherID, emailAddress, password, subject
      Behaviors: login, logout, count, confirm, post
 Course
      Data: name, courseID, credit, time, location, status(full or available)
      Behavior: N/A
 RegistrationSystem
      Data: course, userAccount
      Behaviors: search, sort, display, authorize
Sequence of Invoking Behaviors with Behaviors
 Student joe,
 Teacher sam,
 Course math,
 RegistrationSystem neusystem,
 if neusystem.isAvailable
      if joe.hasAnAccount
             joe.loginSystem -> neusystem: authorize
      else
             joe.signUpForSystem -> username, studentID, password, emailAddress,
neusystem: authorize
             joe.createAccount
             joe.loginSystem -> neusystem: authorize
      end
      if authorize.isTrue
             joe.searchForCourses -> name, courseID, credit, status: Collection of
Courses
             while(joe.choose()== null)
                   neusystem.displayNextPage
             math = joe.wantToChoose
             if math.isNotSuitableForJoe
                   neusystem.rejectRegistration
             else
                   if math.registerSpace != null && math.registerSpace < max
```

joe.addCourse -> name, studentID

joe.requestSignUpWaitingList -> neusystem

neusystem.authorize

else

```
neusystem.sendRequestToTeacher -> sam
                 end
                 if sam.acceptRegistration
                       sam.confirmRegistration
                       neusystem.confirmRegistration
                 else
                       neusystem.rejectRegistration
                       joe.chooseAnotherCourse
                 end
           end
    else
           joe.cantLoginSystem
    end
else
    joe.accessSystemLater
end
```