CMSC389j Winter 2013 Quiz #1, Duration 25 Minutes

Last Name (Print): ___________________________ FirstName (Print): ___________________________ DirectoryID: ___________________________

1. Using the Default Pattern for custom type definition discussed in class, implement a “class” called Student. Each student has a name, number of credits, and an array of integers representing the courses the student takes. The Student type has a common field named “college” initialized to “UMCP”. The type has a method called “info” that displays the student’s information (see example below for the format to use). The following example relies on the type you are expected to define:

   ```javascript
   var s1 = new Student("Kelly", 15, [414, 420]);
   s1.info();
   
   Output
   Name: Kelly , Credits: 15 , Courses: 414,420 , College: UMCP
   ```

2. Define a “derived” class called GradStudent based on the Student type above. A graduate student has all the values associated with a student, but in addition it has an advisor (string). A method getAdvisor that returns the advisor is associated with this custom type. The following example relies on this type:

   ```javascript
   var gs1 = new GradStudent("Mike", 15, [414, 420], "Dr. Smith");
   gs1.info();
   document.writeln(gs1.getAdvisor());
   
   Output:
   Name: Mike , Credits: 15 , Courses: 414,420 , College: UMCP
   Dr. Smith
   ```
EXTRA PAGE IN CASE YOU NEED IT