

## COMP 1409 Lab 11-a ( 2 points )

### In-class lab

The local driver's license office has asked you to write a program that grades the written portion of the driver's license exam. The exam has 20 multiple choice questions. Here are the correct answers:

1	B	11	B
2	D	12	C
3	A	13	D
4	A	14	A
5	C	15	D
6	A	16	C
7	B	17	C
8	A	18	B
9	C	19	D
10	D	20	A

The driver must correctly answer 15 questions out of 20 to pass the exam.

Write a class called **DriverExam**. Here are the relevant attributes:

- An array of char to hold the correct answers. You can make this a symbolic constant, initialized when created, e.g.  
`public static final char[] ANSWERS = {'B', 'D', 'A' etc... }`
- An array of char to hold the driver's answers.
- A field of type `InputReader` – copy the `InputReader` class from lab 9-a into this project

Provide a default constructor that initializes the instance variables.  
Use the `InputReader` class to get the driver's answers.

Provide a method called `promptStudentAnswers()` that prompts the student to type the answer to each question in turn, validates the answer and puts it into the array if valid. Notice that the only valid answers are (A,B,C,D). If the student types an invalid answer he/she will be prompted to try again.

Provide a method called `getTotalCorrectAnswers()` that returns the total number of correct answers.

Provide a method called `getTotalIncorrectAnswers()` that returns total number of incorrect answers.

Provide a method that returns true if the student passes the exam, false if not.

Demonstrate your completed project to your instructor or TA before leaving the lab and be sure we have checked it off.