

**Homework Assignment 5 (20 Points)**  
**CSE 100, Fall B 2013**

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**Introduction:** This homework enables you to reinforce the concepts that we have discussed in the class including, arrays, basic array operation.

**Reading:** Array related lecture notes and examples discussed in the class. Revisit the Lottery example discussed in the class.

**Important:** This is an individual assignment. Please do not collaborate.

**Grading policy for part II:** We will check

- a) The correctness of your program/solution
- b) Variable naming (self describing)
- c) Appropriate commenting and Indentation.

**1. Using Arrays: Driver's License Exam Grader System**

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 10 multiple choice questions. Here, are the correct answers:

- |      |       |
|------|-------|
| 1. B | 6. A  |
| 2. D | 7. B  |
| 3. A | 8. A  |
| 4. A | 9. C  |
| 5. C | 10. D |

Your program should store the correct answers shown above in a character array named **"correctAnswers"** (In this assignment you are not doing any string manipulation, so the "Answer" array can be a simple character array, not a string).

Then, it should ask the user to enter the student's answers for each of the 10 questions, and the answers should be stored in another array named **"studentAnswers"**.

In order to pass the exam a student must answer at least 8 questions out of 10. So, the "grade" function checks the entries in both array and determine if the student has answered at least 8 questions correctly.

If student has passed the exam, your program should display the following message

**Congratulations!**

**You have passed exam.**

**Total number of correct answers: < >**

**Total number of incorrect answers: < >**

If student has failed the exam, your program should display the following message

**Sorry, you have not passed the exam!**

**Total number of correct answers: < >**

**Total number of incorrect answers: < >**

**Input validation:** Only accept the letters A, B, C, or D as answers. If user enters any other letter, your program should display a message indicating A, B, C, and D are the only valid inputs. If user enters invalid input more than three times display the message

“ GOOD BYE “ and exit the program.

**Submission Instruction :**

**Submit your homework by following the instructions below:**

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- Submit your Assignment5.cpp file on-line to Basket Homework5 in DropBox.

**NO LATE ASSIGNMENTS WILL BE ACCEPTED**