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CSC 211-03   **PRELAB 8**

```java
public class GradeExam {
    // Main method starts here as usual
    public static void main(String[] args) {
        //  Here are the answers the students got on the exam that we are going to
compare to the answer key. Note it is 2D
        char[][] answers = {
                { 'A', 'B', 'A', 'C', 'C', 'D', 'E', 'E', 'A', 'D'},
                { 'D', 'B', 'A', 'B', 'C', 'A', 'E', 'E', 'A', 'D'},
                { 'E', 'D', 'D', 'A', 'C', 'B', 'E', 'E', 'A', 'D'},
                { 'C', 'B', 'A', 'E', 'D', 'C', 'E', 'E', 'A', 'D'},
                {'A', 'B', 'D', 'C', 'C', 'D', 'E', 'E', 'A', 'D'},
                {'B', 'B', 'E', 'C', 'C', 'D', 'E', 'E', 'A', 'D'},
                {'B', 'B', 'A', 'C', 'C', 'D', 'E', 'E', 'A', 'D'},
                {'E', 'B', 'E', 'C', 'C', 'D', 'E', 'E', 'A', 'D'}};

        // This is the answer key array that we set to "keys" to check for the right
solutions. Note it is 1D
        char[] keys = {'D', 'B', 'D', 'C', 'C', 'D', 'A', 'E', 'A', 'D'};

        // We use this for loop to increment the array elements in order to process
the answers
        for (int i = 0; i < answers.length; i++) {
        // This nested for loop allows us to compare the answers one student gave to
the key at a time.
        int correctCount = 0;
        for (int j = 0; j < answers[i].length; j++) {
        if (answers[i][j] == keys[j])
                correctCount++;
            }
            System.out.println("Student " + i + "'s correct count is " +
                    correctCount);
        }
    }
}
```

OUTPUT:

```
Student 0's correct count is 7
Student 1's correct count is 6
Student 2's correct count is 5
Student 3's correct count is 4
Student 4's correct count is 8
Student 5's correct count is 7
Student 6's correct count is 7
Student 7's correct count is 7


Process finished with exit code 0
```