

CS 146 Assignment 7

You are a programmer at the Ole Country School and have been assigned the task of creating the start of a small grades database. All students who attend the school take 4 quizzes which count for 50% of their grade and the other 50% comes from a project they must do. Your task is to create the necessary array of structures and read in the students' names, quiz scores and project scores from **class.txt** on VSpace. Calculate a final grade for each student as well as his/her letter grade. Note that each student will only show up one time in the list. Sample from the file:

```
T.R. Alski 24 25 25 23 95.5
V.A. Borstellis 25 25 25 25 100.0
```

- Compute and print the average project score and average grade at the bottom of the report, each to 2 decimal places.

Ole Country School Grade System

<u>Student</u>	<u>Quiz:</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>Project</u>	<u>Grade</u>	<u>Letter</u>
T.R. Alski		24	25	25	23	95.50	96.25	A
V.A. Borstellis		25	25	25	25	100.00	100.00	A
.								
.								

Some hints:

- Declare the maximum array size to be 29 – there won't be that many elements you load data into, so you'll have to set up a counter to keep track of how many you read in.
- You may find it easier to create a spot for the grade and letter in your structure rather than computing them "live" each time.
- I know there are other ways to this program, but you must use an array of structures since your next assignment will be a modification of this one.

Letter Grade Scale:

	87 – 89 B+	77 – 79 C+	67 – 69 D+
95 – 100 A	84 – 86 B	74 – 76 C	64 – 66 D
90 – 94 A-	80 – 83 B-	70 – 73 C-	60 – 63 D-

Flowcharts are no longer needed. Post your zipped project file on VSpace.