Assignment

Write a program that uses a structure to store the following data:

Member Name	Description
1. name	Student name
2. IDnum	Student ID number
3. Test[3]	Pointer to an array of test scores
4. average	Average of test scores
5. grade	Course letter grade (A, B, C, D, or F)

The program should keep 3 test scores for a group of students. It should ask the user how many students there are. It should then dynamically allocate an array of structures.

After the student array have been dynamically allocated, the program should ask for the ID number and the test scores for each student. The average test score should be calculated and stored in the average member of each structure. The course grade should be computed on the basis of the following grading scale:

A	90-100
B	80 – 89
C	70 – 79
D	60 – 69
F	below 60

The course grade should then be stored in the grade member for each structure. Once all this data is calculated, a table should be display on the screen listing each student's name, ID number, test scores, average test score and course grade.

Input validation:

- all the data for each student is entered
- Do not accept negative numbers for any test score.

An example of program output

```
Input student data...

How many students: 2
        Enter information for student 1
        Student name: George Brown
        Student ID number: 123
        Enter 3 test scores:
                test score 1: 87
                test score 2: 95
                test score 3: 79
        Enter information for student 2
        Student name: Nancy Smith
        Student ID number: 215
        Enter 3 test scores:
                test score 1: 89
                test score 2: 88
                test score 3: 95


*** REPORT ****
        NAME         ID      TEST SCORES    AVERAGE Grade
--------------- ------ --------------- --------- ---
George Brown      123    87   95   79    87.00     B
Nancy Smith       215    89   88   95    90.67     A

Press any key to continue . . .
```

Submission

Submit your source code with 3 test cases.