



Q1	33 pts	
Q2	33 pts	
Q3	34 pts	
TOTAL		

Student Number: Student Name:

Answer the Following Questions.

- Q.1) Define a function **multiply** in order to compute and return the product of the integer type elements of an input array **array_in**. The function should have a second input argument telling the number of the array elements. Elements of the input array are random numbers between 1-9, generated in the main function. Consider the array size as 20.

Q.2) Please write a complete C program which uses a user defined function to calculate the student's **AverageMark** and assign it a letter grade. The program should use the following function prototype:

char **CalculateGrade**(int **Homework**, int **Quiz**, int **Lab**, int **Midterm**, int **Final**)

Use the following formula to calculate the AverageMark

AverageMark=0.05***Homework**+0.15***Quiz**+0.20***Lab**+0.25***Midterm**+0.35***Final**

Note that the letter grades will be assigned in accordance with the following rules:

if mark is less than or equal to 45, lettergrade is F

if mark is greater than 45 and less than or equal to 60, LetterGrade is D

if mark is greater than 60 and less than or equal to 70, LetterGrade is C

if mark is greater than 70 and less than or equal to 80, LetterGrade is B

if mark is greater than 80, LetterGrade is A

Q.3) Write a function called `SwapPointers()` in order to interchange pointers `pp` and `qq` so that after the function is called, `pp` points to the object to which `qq` formerly pointed, and vice versa.