

LAB 5

Individual/independent

1. Summing Array Elements in a Range

Create a procedure that returns the sum of all array elements falling within the range j...k (inclusive). Write a test program that calls the procedure twice, passing a pointer to a signed doubleword array, the size of the array, and the values of j and k. Return the sum in the EAX register, and preserve all other register values between calls to the procedure.

2. Test Score Evaluation

Create a procedure named CalcGrade that receives an integer value between 0 and 100, and returns a single capital letter in the AL register. Preserve all other register values between calls to the procedure. The letter returned by the procedure should be according to the following ranges:

Score Range	Letter Grade
90 to 100	A
80 to 89	B
70 to 79	C
60 to 69	D
0 to 59	F

Write a test program that generates 10 random integers between 50 and 100, inclusive. Each time an integer is generated, pass it to the CalcGrade procedure. You can test your program using a debugger, or if you prefer to use the book's library, you can display each integer and its corresponding letter grade.