

Arab Academy for Science, Technology and
Maritime Transport-College of Computing &
Information Technology—Sheraton branch
Course : Problem Solving and
Programming
Examiner : Dr. Shireen A. Hussein



Academic Year : 2023/2024
Semester : Spring
Department : Computer Science
Time Allowed : 90 Minutes

Lab. Test (A)

Tuesday 3

Name :
Class :

15

Write a C program for each of the following problems:

(9 points)

1. Using parallel arrays, write a program that receives the city name across the country and number of accident count in it (ended with -1). Then adds one to the count for the appropriate accident range (R1:0 – 99, R2:100 – 199, R3: 200 – 299, R4: 300 – 399, R5: 400 – 499, R5:500 or above). Use the following functions:
 - void Display_FrequencyDistribution(); *that gives the number of cities reporting accident counts for each range.*
 - void Display_Cities(char [] city_name, int r); *for a specific range r.*

(6 points)

2. Write a program that reads a line of text and prints the number of three-letter words, and so on, appearing in the text.

For example, the phrase "To be or not to be, that is the question" outputs: three-letter words 2.