

Arab Academy for Science, Technology and
Maritime Transport-College of Computing &
Information Technology - Sheraton branch
Course : Problem Solving and
Programming

Examiner : Dr. Shereen A. Hussien

Name :

Class :



Academic Year : 2023/2024
Semester : Second
Department : Computer Science
Time Allowed : 50 Minutes

Model A

Draw a Structure Chart and a write C program as a solution for the following problem:

Having a series of positive integer numbers of predefined size of user (stored as an array) , write a program that find the occurrence each element in it

_____ a) Using while loop. b) Using for loop.

Example: for an input size of 6 , int array 9 , 10, 9, 27, 9, 25, 27 the output will be:
9 occurs 3 times , 27 occurs 2 times, 25 occurs 1 tim. **Your output must be a FILE**
“output.txt” and you must use at least one **FUNCTION**.