

Model A

**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

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

Having a series of integer numbers ended with a sentinel value of -1, write a program that reverses each number.

a) Using while loop.

b) Using for loop.

Example: for an input of 12, 14, 15, 47, 39, -1, the output will be: 21, 41, 51, 74, 93, -1

Your output must be a FILE "output.txt" and you must use at least one FUNCTION.