Final Exam of Programming Design (I)

Name: Student ID:

In this exam, you can use teaching materials in GitHub to answer questions. Please upload programs of your answer. Each answering program corresponds to a question below. They are named 1.c, 2.c, …, and 5.c. In the end of exam, hand over this paper to teacher.

Questions (total 100% ):

1. Please give a declaration for an array composed of 10 integers which are initiated randomly (10%).
2. Please write a C program (bubble algorithms) to sort 10 integers with increasing order from left to right (20%).
3. Please write a C program (quick algorithms) to sort 10 integers with increasing order from left to right (20%).
4. Please write a C program to print binary expression for a positive integer (25%).
5. Please write a C program to calculate an arithmetic expression like 5+2\*2\*3= which is an input string from users (25%)