Homework #7

Problem statement

Sorting with recursion.

Requirements

1. Write a C program that is capable of handling input.
2. Given a array including N any different positive integer.
3. (1)You need to sort them by bubble sort(10pt), quick sort(20pt) , merge sort(20pt) increasingly by recursion.
   (2) And then sort them by bubble sort (10pt), quick sort (20pt) ,merge sort (20pt) decreasingly by recursion.
4. **You must use pointer to access array's value.**

Submission

Be sure to upload your source code to E3 by the due date and name your file as "**HW7_xxxxxxx.c**", where **xxxxxxx** is your student ID.

Sample run

Given N number:5

Input: 10 9 5 4 3

0: bubble, 1: quick, 2: merge   :2

Merge sort:

(1)Increasing:

3 4 5 9 10

(2)Decreasing:

10 9 5 4 3

Hint

(1) Hint.ppt
(2) Pointer to access array's value:
```
int a[2] = {0, 1};
a[0] = 0
a[1] = 1
*(a+0) = 0
*(a+1) = 1
```