

Data Structure Homework F : Sorting

- Objective
 - ☐ Implement a quick sort function.
 - ☐ Implement a merge sort function.
 - ☐ Implement a heap sort function.
 - ☐ Learn the ASCII code.
- Descriptions
 - ☐ Read a string from a user input and it must only contain alphabetic characters. (a~z or A~Z)
 - ☐ If the user input any non-alphabetical character, your program should allow the user to re-input a new string.
 - ☐ Implement a quick sort function to sort the characters in the input string according to their ASCII decimal numbers.
 - ☐ Implement a merge sort function to sort the characters in the input string according to their ASCII decimal numbers.
 - ☐ Implement a heap sort function to sort the characters in the input string according to their ASCII decimal numbers.

For example:

We input "hgfedcba",
and the output "quick sort : abcdefgh",
 "merge sort : abcdefgh",
 and "heap sort : abcdefgh".
- Grade policies
 - ☐ 15% - Source code can be compiled without any error
 - ☐ 5% - readme file, code style, and comments in source code
 - ☐ 25% - Implement the Quick sort function
 - ☐ 30% - Implement the Merge sort function
 - ☐ 25% - Implement the Heap sort function
- Turn in
 - ☐ System
 - ◆ Turn in files to the workstation : csie0.cs.ccu.edu.tw
 - ◆ Command: turnin ds.hwF [files...]
 - ◆ This source code will be compiled and tested on the workstation
 - ☐ Source code
 - ◆ Source code with appropriate comments
 - ☐ Report
 - ◆ A document named "readme.txt" or "readme.doc" or "readme.pdf".

You should describe the details of your project in your readme file