Algorithms Examples in ANSI C

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Here are some examples of Algorithm written in ANSI C.

Even do they are written in ANSI C, I would advice to compile them in Linux as I did. If you encounter any problems or errors, please let me know by providing an example of the code, input, output, and an explanation. Thanks.

NOTIFICATION: These examples are provided for educational purposes. Using this code is under your own responsibility and risk. I do not take responsibilities of how they are used.

- Bubble sort. Code Example code: <u>carlstein p01.c</u> – Test File: <u>carlstein p01 integers.txt</u>
- Heap sort

Example code: <u>carlstein p02.c</u> – Test File: <u>carlstein p02 integers 1.txt</u>

- Binary Search using Heapsort
 - Example code: <u>carlstein_p03.c</u> Test Files: <u>carlstein_p03_integers_1.txt</u>, <u>carlstein_p03_integers_2.txt</u>
- Quicksort using Hoarse partition and random partition
 Example code: <u>carlstein_p04.c</u> Test Files: <u>carlstein_p04_integers_1.txt</u>, <u>carlstein_p04_integers_2.txt</u>
- Knapsack

Example code: <u>carlstein_p05.c</u> – Test Files: <u>carlstein_p05_integer_1.txt</u>, <u>carlstein_p05_integer_2.txt</u>, <u>carlstein_p05_integers_3.txt</u>

- Ferry Loading
 - Example code: <u>carlstein p06.c</u> Test Files: <u>carlstein p06 input 1.txt</u>, <u>carlstein p06 input 2.txt</u>, <u>carlstein p06 input 3.txt</u>, <u>carlstein p06 input 4.txt</u>
- Huffman algorithm using heap
 - Example code: <u>carlstein p07.c</u> Test Files: <u>carlstein p07 input 1.txt</u>, <u>carlstein p07 input 2.txt</u>, <u>carlstein p07 input 3.txt</u>, <u>carlstein p07 input 4.txt</u>
- Kurskay's algorithm using Disjoint Sets and heap
 Example code: <u>carlstein p08.c</u> Test Files: <u>carlstein p08 input 1.txt</u>,
 <u>carlstein p08 input 2.txt</u>, <u>carlstein p08 input 3.txt</u>, <u>carlstein p08 input 4.txt</u>
- Disjktra algorithm using heap
 Example code: <u>carlstein p09.c</u> Test Files: <u>carlstein p09 input 1.txt</u>,
 <u>carlstein p09 input 2.txt</u>, <u>carlstein p09 input 3.txt</u>, <u>carlstein p09 input 4.txt</u>
- Vertex Cover algorithm using heap
 - Example code: <u>carlstein p10.c</u> Test Files: <u>carlstein p10 input 1.txt</u>, <u>carlstein p10 input 2.txt</u>, <u>carlstein p10 input 3.txt</u>, <u>carlstein p10 input 4.txt</u>, <u>carlstein p10 input 5.txt</u>, <u>carlstein p10 input 6.txt</u>, <u>carlstein p10 input 7.txt</u>