

Sorting – Exercises

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1 Insertion Sort

1. Exercise 2.1-1.
2. Exercise 2.1-2.
3. Exercise 2.1-3.

2 Quicksort

1. Exercise 7.1-1.
2. Exercise 7.1-2. This exercise shows a weakness of quicksort, but the same applies if the input array is already sorted or is in reversly-sorted. Check it.
3. Exercise 7.1-3.
4. Exercise 7.2-2.
5. Exercise 7.2-3.
6. Exercise 7.4-5.

3 Heap sort

1. Exercise 6.1-1.
2. Exercise 6.1-2.
3. Exercise 6.1-3.
4. Exercise 6.1-4.
5. Exercise 6.1-6.
6. Exercise 6.1-5.
7. Exercise 6.2-1.
8. Exercise 6.2-3.
9. Exercise 6.2-5 and use it in the implementation.
10. Exercise 6.3-1.
11. Exercise 6.3-2.
12. Exercise 6.4-1.
13. Exercise 6.4-3.

4 Implementation

Implement the different sorting functions in `sort-exercise.c` (you can download the file from the web-page).