

IT LAB - M.TECH CS

Lab - 2

July 31, 2017

Analysing Quick Sort: The tricky part of Quick Sort implementation is fixing the end conditions properly.

1. First, write the algorithm of Quick Sort and trace in detail the recursion on an array of size 8. Everyone needs to submit this document.
2. Now go through the program quicksort-test.c and find the errors. Clearly explain in detail the errors and correct the errors.
3. Write your own program for Quick Sort and do the following analysis:
 - Run your program on inputs (created for Lab 0) that are a) sorted b) random and c) sorted in the descending order; and document the number of comparisons and swaps that are taken by Quick sort.

Submission Instructions: (i) A written document for tracing of QS and correction of the test program to be submitted in the lab itself. (ii) : Please submit Rollno.tar.gz containing the directory named by your rollno having all the program files and the result analysis file to sdbcs@dcis.uohyd.ernet.in by 4 August 2017.