

Please find the description for the written assignment here.

- 1) Analysis of time complexities for Binary Search and Bubble, Merge, Quick sort. Write in brief about the best and worst cases.
- 2) Exercise 2.1, 2.3, 2.4, 2.5. from the textbook.
- 3) Plot graphs for atleast five different sorting algorithms and submit a pdf with explanation(Y-Axis: Time X-Axis: number of elements). Use rand() to generate these numbers and for each N(number of elements), run your algorithm atleast five times and take the average time as the time for that N. Write your roll number in the pdf also. Upload this in the courses portal.

Any copy cases found would be given away a straight 0 and further assignments will not be evaluated.

Any doubts will be clarified only through the courses portal. The pdf should be uploaded on the portal with your roll number as the file name. The written assignments will be collected after the monday's class in the classroom. The deadline for the pdf upload portal is Saturday 5 pm.