MIT SCHOOL OF ENGINEERING

Rajbaug, Loni-Kalbhor, Pune



Chass - SY-13 Name or Anunay Holdey Erbject: Dota Lob Structures

Rodno 1- 2215055

Envolment No :-MITULISTITOOID

Lab Write - 4/2 (que-Ans)

Proeficed - 11

data (elements) in a Mart 18 Southing 9 is ealled does ing The ourangement of eg: unsoited :- 5, Sorted !permuted order given prefferhed 4 8

ともろ It quickly and easily. It makes the data bequential data Why we need Southing By south of data, it is approacheable and understandable. If makes am order of Paries to search twenty

Explain Best, Average, west E gy Avenage lase is t salestion and Bubble Selection Sout -Best Case & Cope is (see analysis bout

PUNE, INDIA A leap towards, world class 6 do MIT SCHOOL OF ENGINEERING Bost case complexity is no when arrivery Rajbaug, Loni-Kalbhor, Pune as sorted. Worst case complexity is no when array is independent of distributed or data. -) Bribble Sort - Bestase 10 1 (n2) Average case = 6 n² Worst case Q(n²) Best case complexity is nother away is 8 orted. Worst case complexity is n2 when I array is revers e solved. 9.4) What & stability in Sorting I which sorting algorithms are not stable ! -> A torting algorithm is eard to be stable if two objects with equal keeps keys appear in same order is sorted output as they appear in input imsorted array. Some sorting algorithm is stable by the nature like inscrtion sort merge sort and bubble sort. Some agorithms which are not stable gre - soul faick sort, heap sort ete