Assignment (2)

Auswer 1)

(a) as use have to custom date

Structure DS2 supporting two

Operations 'get at Index (j)'

or Eset at Endex (j, 1)

in O(KlgK)

for this case and It was the

19

-

-

EIBINIE Sorting recursions by

EIBINIE TO two equal halves

THE TIME AND EACH halves

THE TIME AND THE ARTER BACK halves

THE TIME AND THE MEX GRING BACK

TO STATE THE MEX GRING BACK

Since, 9t han better Asymphotic

thure comp. (D(mign) compared

to insertion sort (D(m)) f.

main of are companiston using proups

the merge sort provider the 1000

thus complexity even through Pt

requires more adait space

| Date   |
|--|
| Answer @ given sorted averay A' containing 'n' integers  swaping log logn bow adjacent |
| ? swaping log logn btw adjacent  |
| -> Insertion sort => Home complexity  O(n2) in wort case                               |
| which is not suitable for this case because and to the large                           |
| > Selection sorts > + fine complexity  |
| naking it not suitable for   |
| Officiently handling the puraps  |
| O(nlogn) en all cases.   |
| the swaps efficiently without fuccessing the terme complexity                          |
|  |
| ofter log logs proups the adjacent time.   |