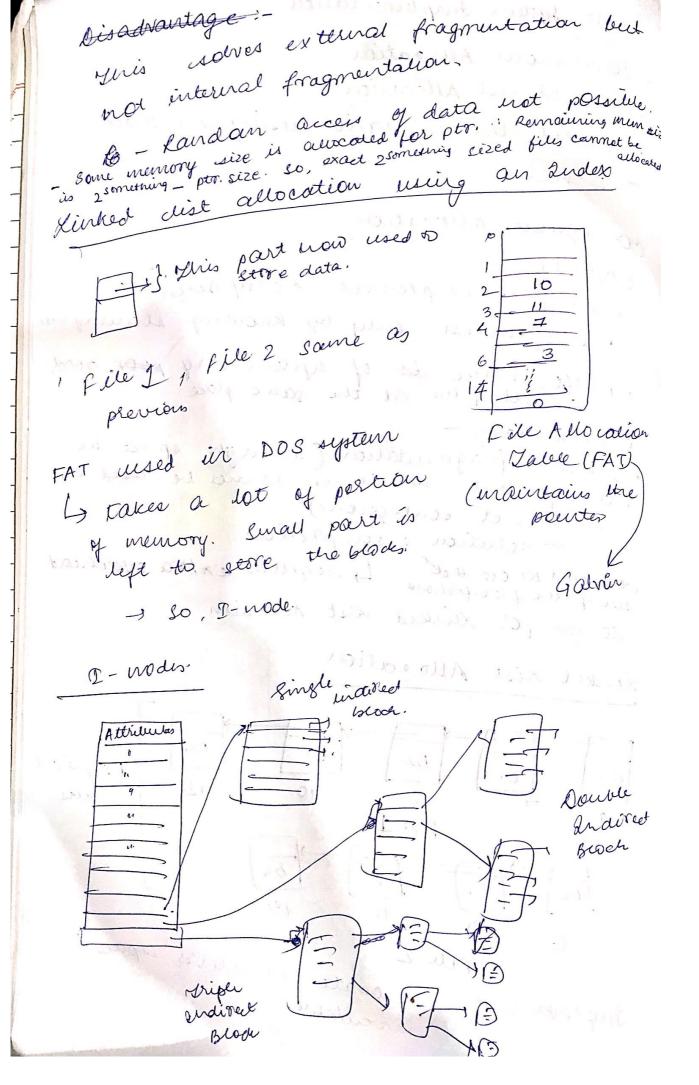


Thy over : allocate words ver space avcidable



Scanned with CamScanner

For cellocation of 15 12+18+15x15+15x15 1 double toriple indered endered : last 3 are used no ptr. U2 used for. dala block)

consider a disk pack with a sick time of 4 mound rotational speed of 10000 pm. it has 600 sectors per track and each sector can store 512 bytes of data. Consider a file stored in the disk, the file contains 2000 sectors. Assume that every sector accessor requires a seek. The average rotational tolerry for accessing each sector is hay of the time for one complete votation. What is the total time inleded to see ad the entire file?

Jus: Seek turne = 4 mms.

RPM = 10000 rpm

→ Rotational eatency = { x 1 complete istalion = 1 × 60/10000

Section = 600 / Brack = 3 ms.

Itaring capacity of each sector = 512 legses Transfer rate = bytes on brack / rotation 2 512 × 600 = 51200 B/ms.

file access time = seek time + rotational laeoncy + transfer rouge 1121121 + 2121 + 21 = 14000 + (512×20000)/5120 of I sector = 7 ms " 2000 " = 2NO x7 = 14 600 ms. Andisk system has the following parameter No. of tracks = 500 No of sectors per track = (00 No. of bytes per sector = 500 Hime taken by the head to move from are track to adjacent track = 1 ms. potation speed = 600 mpm what is the average time taken for transferring 250 lytes from the disk? encered to or on the [Aus. 30]