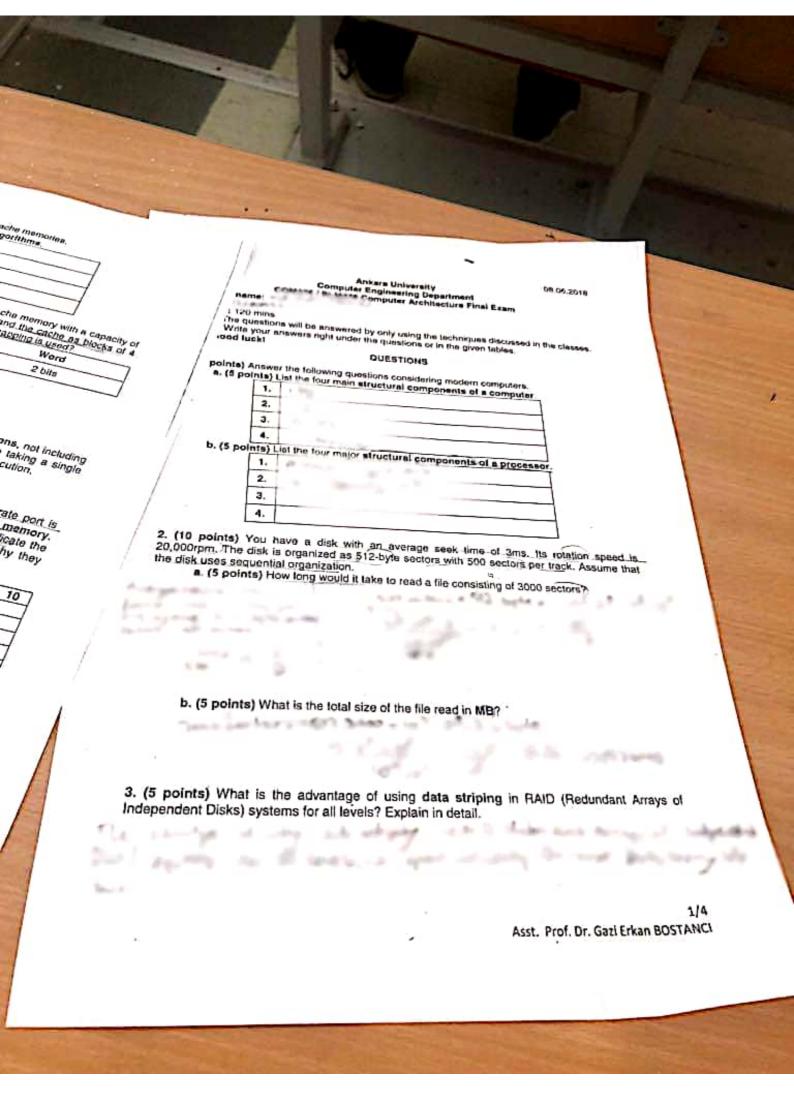
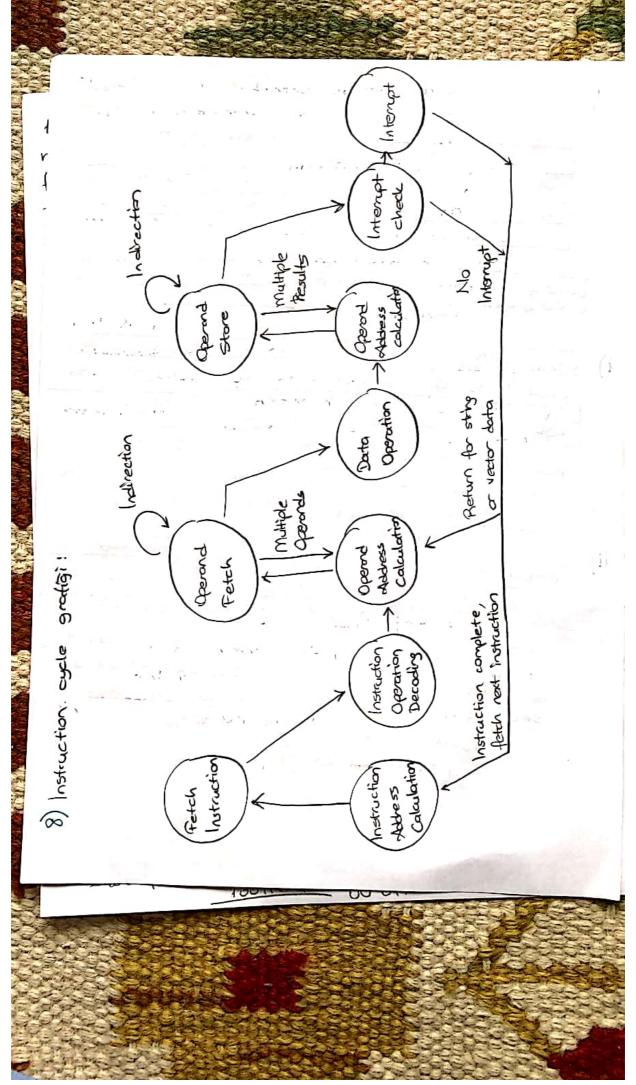
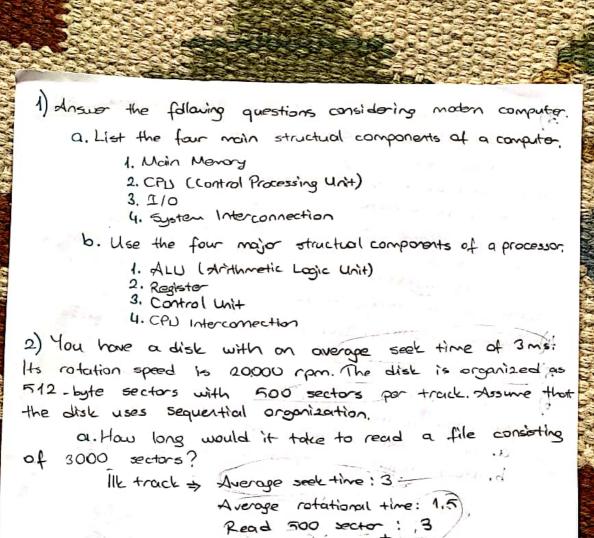


CamScanner ile tarandı





CamScanner ile tarandı



60 000 ms 20.000 tur

x ms

1 tur

3000 = 6 track

x = \frac{60.000}{20.000} = \frac{3.ms}{3.ms} \text{ Avrg} = 1.5 ms

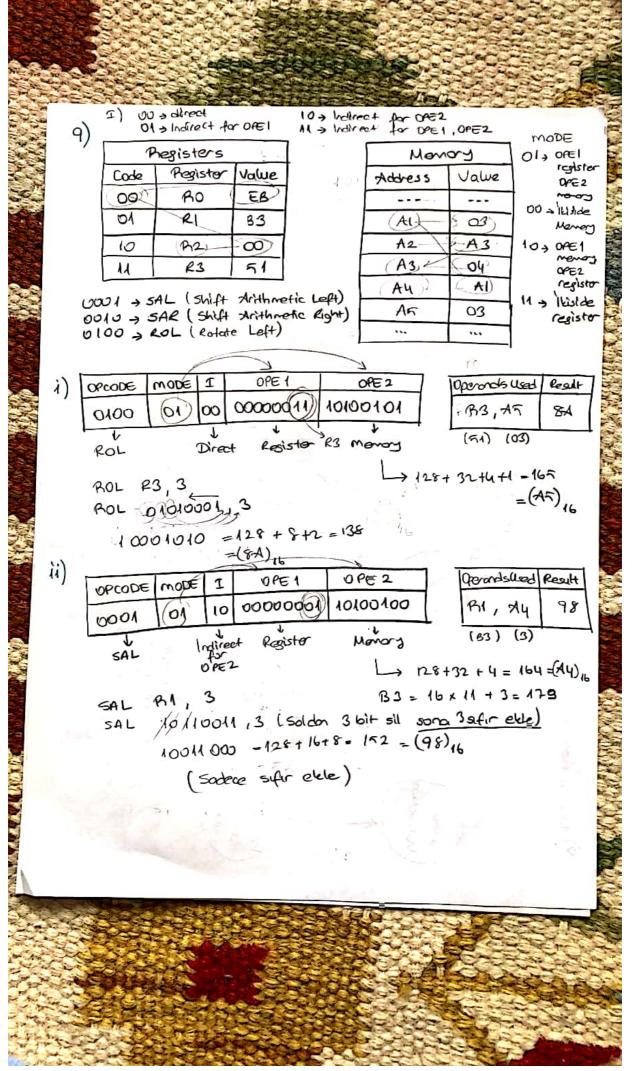
Total = 7.5 + (5 x 4.5) = 30 ms = 0.03 sn

1 track igh gas balon 5 track igh

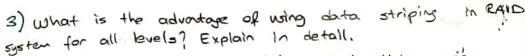
b. What is the total size of the Alle read in Ma?

512 x 500 x 6 = 1,536 MB





CamScanner ile tarandı



Data striping, geter verinin parallenduktar sonna local disklarden birine map edilmesidir. Yoni, vert bloklar halinde forkli disklarde tutulur. Böylere; for birden fazla ord orda stripleri talep eden blr I/O request gelirse, forkli disklere ogni orda erizerek poralellik soplordipi iain, tum isteklere cevap veiller ve tronsfer time azalir. Bu durunda performansi arttirir,

- 4) Mapping appillari: Direct, Associative, Set associative
- F) Hamming code sorusu.
- 6) Assuming that you are asking to implement by md _ 8 mb memory chip. The word size for this chip is ---

a. What should be the length of monory? b. How would you perform the memory mapping?

$$0 \qquad cb1 = \sum_{i=1}^{\infty} cb1^{i} \times 1^{i}$$

7) How can we extract the middle four bits of a byte using a logical operation. Explain by siving on example. Bu daya bituise masking derir sAND, OR veya XOR ite yopilabilir,

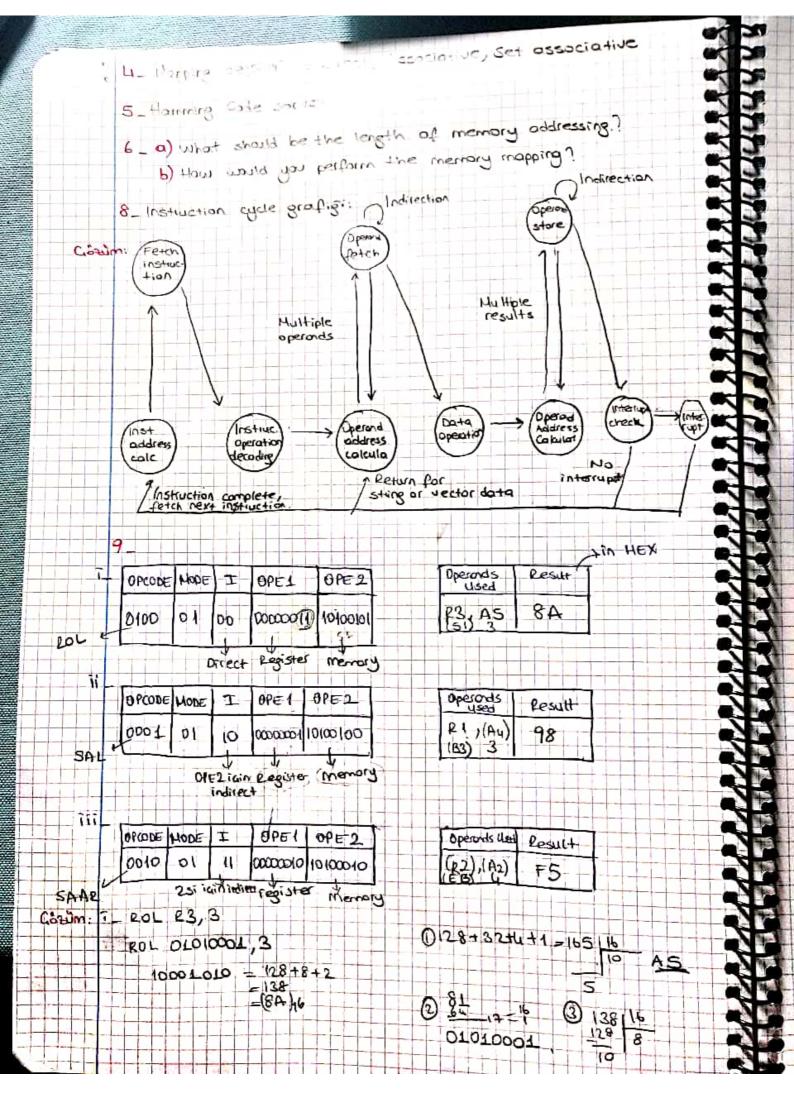
AND operationis bulbrarde 4 bitlik kısmı 0000 te goi kaloni l'le ordlegebiliriz.

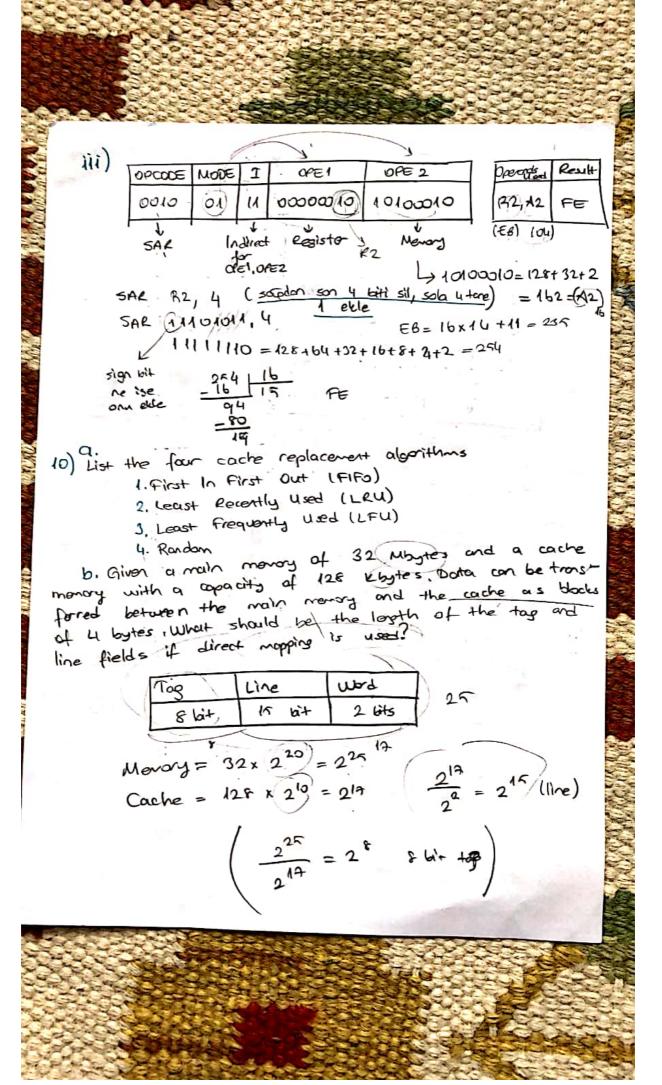
101010 1111000000 Bi4 111111 0000 111111

gho burma orderset sadese Ortodala 4 siti sfrompolerus.

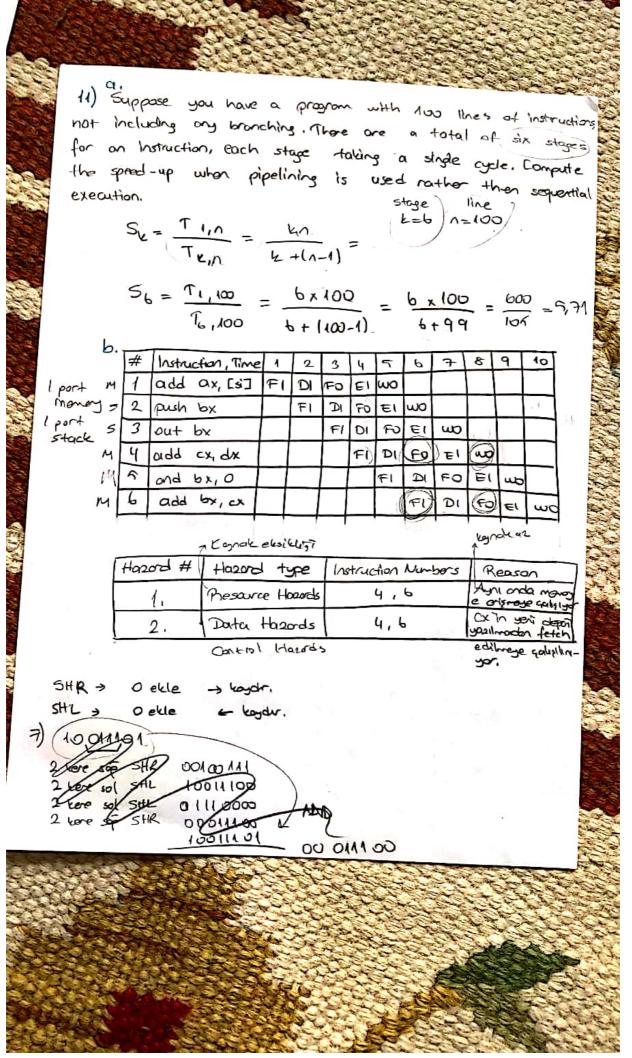
you do 0x30 the ordlanck veyor da 2 but but toraffe a bit de digor tarafa shiftlerek de vetavlidir.



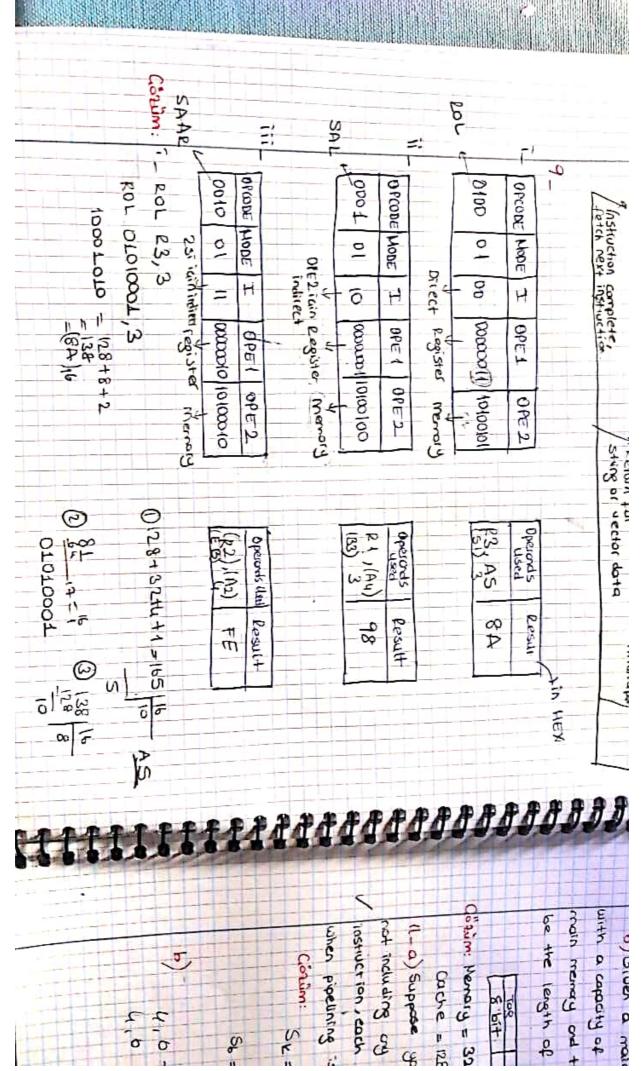


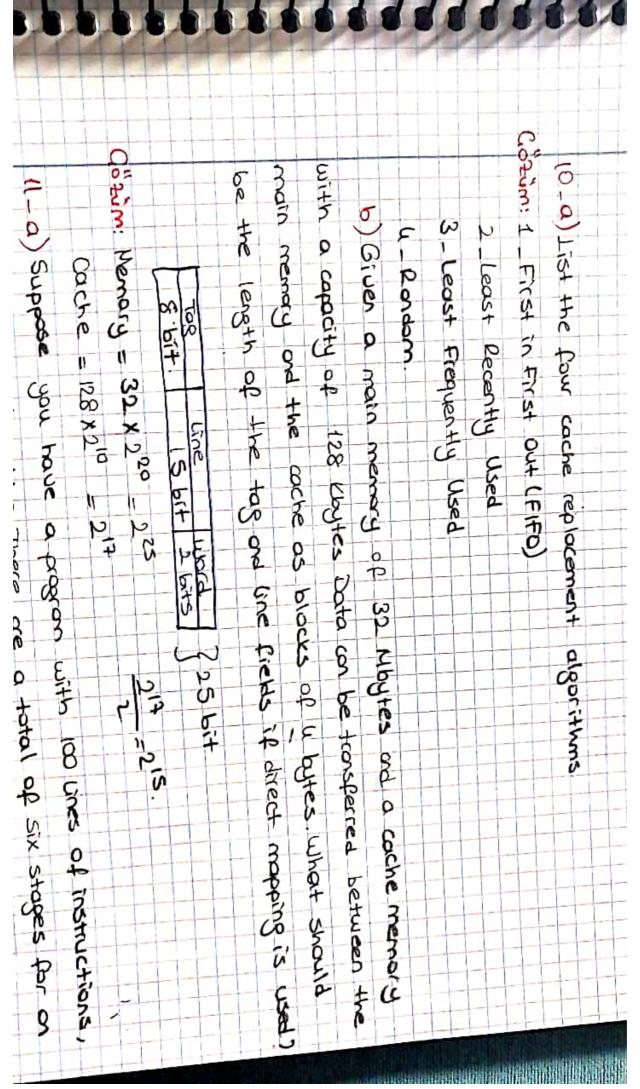


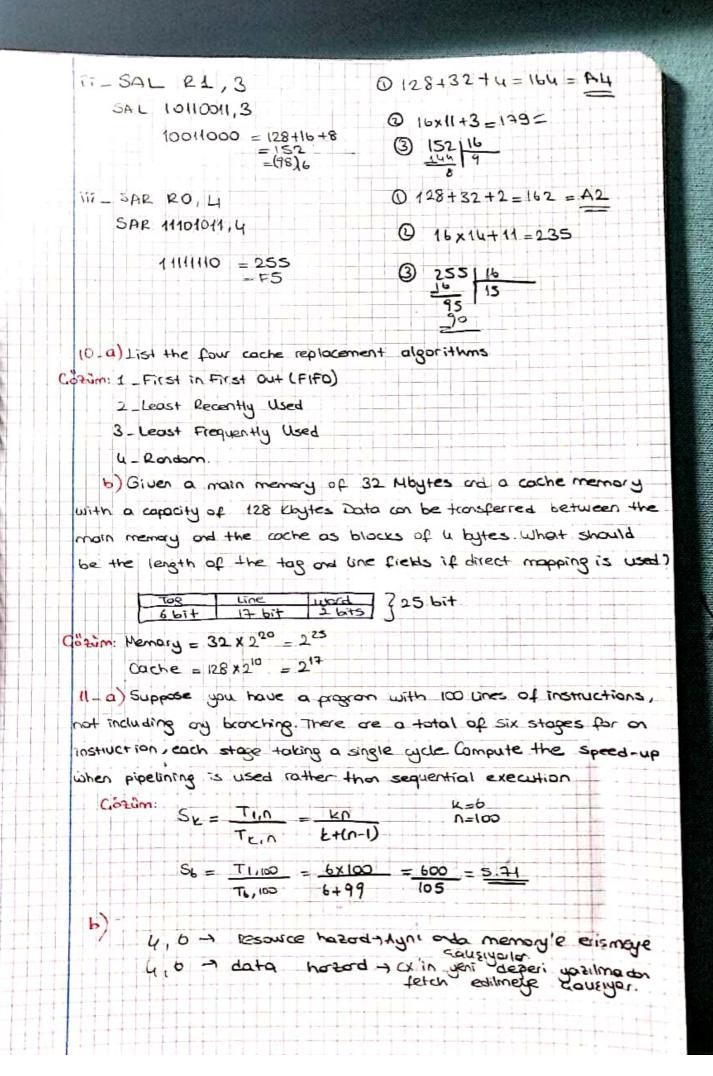
CamScanner ile tarandı



CamScanner ile tarandı







1) Answer the following questions considering modern comp. a list the four main structural components of a computer. Gozdin: 1 - Hain memory 2_ CPU (central Processing unit) 3_ I/O 4 - System interconnection. b - list the four major structural components of a processor. GOZUM: 1-ALY 2 _ Repister 3_ Control unit u_CPU interconnection 2) You have a disk with an average seek time of 3 ms. Its rotation speed is 20.000 rpm. The disk is organized as 512-byte sectors with 500 sectors per track. Assume that the disk uses sequential organization. a - How long would it take to read a file consisting of 3000 Gozum: Ilk track - Average seek time: 3 Averge rotational time. 1.5 Read 500 sector: 60.000 msn 20.000 tur 7.5 ms 3000/500=6 Hrack gerekli x=3 ms Aur = 1.5 ms Total = 7.5 +(5x4.5) = 30 ms = 0.003 sn 1 track Geri kalon b. What is the total size of the file read in MB? 512 x 500 x 6 = 11536 MB 3 what is the advantage of using data striping in RAID systems for all levels? Explain in detail Data striping, gelen winin porcalorditton sonra local disc'lerden biene map edilmesidir toni; vei blokla halinde faku disklerde tutulur. Bilylece: eger briden fazla ordarda stripleri talep eden bri IIO request getire, forku disklere aynı orda erizerek poralellik soğlandığı için, tim isteklere coup voils ve moisfer time azalır Bu dwwn a performansi attur.