L3 - Indexing problem

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Dength of each record = 200,000 Length of each record = 100 bytes Size of block = 4096 bytes

Records/6(ock = 4096/100 = 40

· No of Clocks = 300,000/40 = 2500

Length of ordering key = 9 bytes

Length of address of blocks: 66ytes,

Total length of address of indexfile = 9+6 = 15 bytes

Birary Seach through all the blocks without indexing will take = 'log 7500 = 13 access

By considering indexing, the size of search space can be reduced to 4096/15 = 273 himary search will consume log\_2273 = 9

Data retrieval will finally take 9+1=10 accey