Files & Records

Random Heap Files

• Append if full

Ordered Sequential

Hashed Files

Analysis:

- -B. # of blocks(pages) of data
- -R. # of records per block
- -D. disk I/O time average time D of random/ D of sequential
- -C. Time to process one record name = "Smith"
- -H. time to compute a hash value

	Search	scan	insert	delete
Неар	(Ds+R*C)*B/2		2*Dr+C	Time(Search) +C+Dr
Sorted	log(B)*(Dr+2C) +log(R)*C	同上	Time(Search) +2*1/ 2*B*(Ds+RC)	同上
Hashed	H+Dr+RC	1.25*()	Time(Search) +C+Dr	同左

D sequential! assume physically pages are contiguous

Space utilization factor: 80% 1/.8 = 1.25