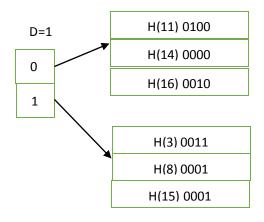
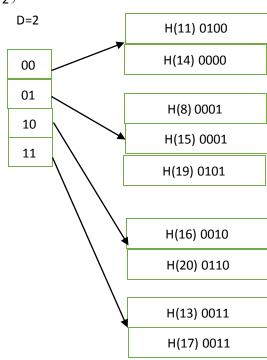
H(3)	H(8)	H(11)	H(14)	H(15)	H(16)	H(17)	H(19)	H(20)	H(33)	H(43)	H(48)
3	1	4	0	1	2	3	5	6	5	1	6

(1)

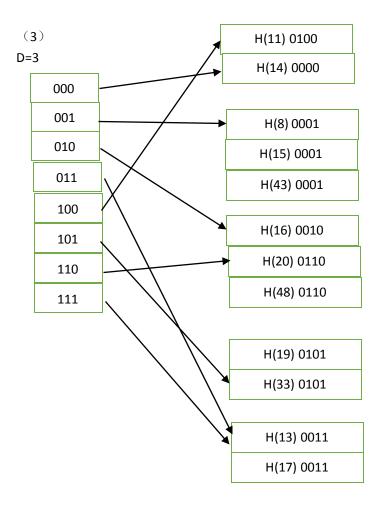


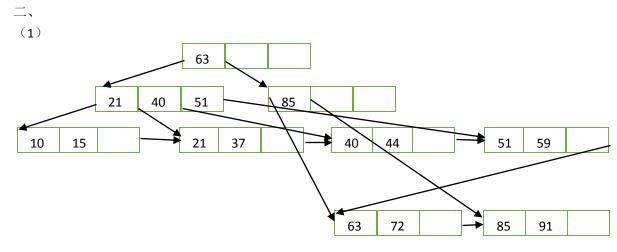
放到16时,放不下了

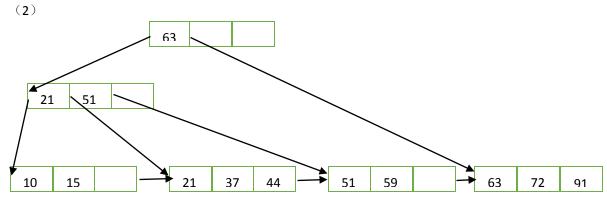
(2)

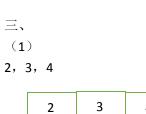


最后放入为 20

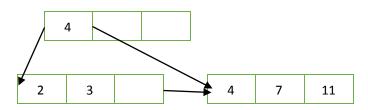




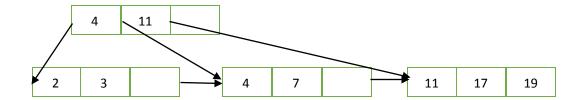


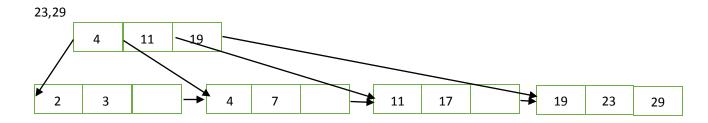


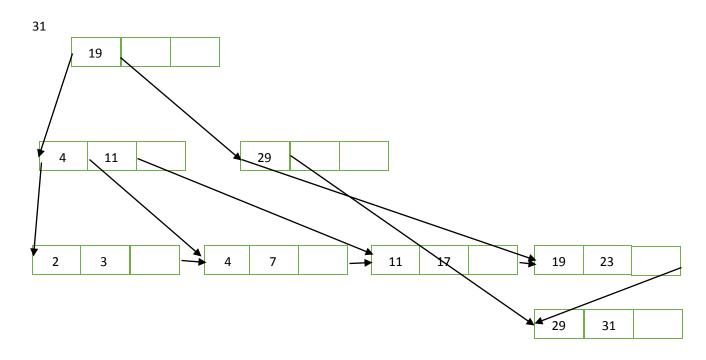
_	4	4
	- 1	1



17,19





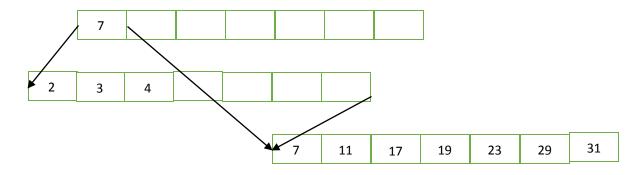


(2)

2, 3, 4, 7, 11, 17, 19

|--|

23, 29, 31



四、

(1)

V(A, r1)=1000, V(C,r2)=1500, V(E,r3)=750

 $T(r1 \bowtie r2) = 1000*1500/max(1000,1500) = 1000$

 $T(r1 \bowtie r2 \bowtie r3) = 1000*750/max(1000,750) = 750$

(2)

V(A, r1)=1000, V(C,r2)=1500, V(E,r3)=750

 $T(r1 \bowtie r2) = 1000*1500/max(1000,1000) = 1500$

 $T(r1 \bowtie r2 \bowtie r3) = 1500*750/max(1000,750) = 1125$

五、

(a)

next-loop: 300/60+(300/60)/10*100=550

Sort-merge: 100*10+50+100=350

(b) 无索引:

Next-loop: 100+50/10*1=105 Sort-merge: 100+50/10=105

有索引:

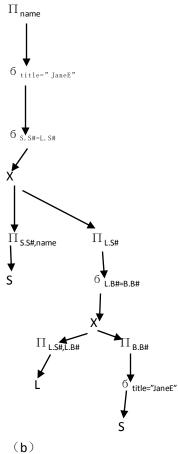
Next0loop: 1+50/10=6 Sort-merge: 1+50/10=6

(c) 无索引:

Next-loop: 50/10+50/10+100=110 Sort-merge: 50/10+50/10+100=110

有索引:

Next-loop: 50/10+1+50/10=11 Sort-merge: 50/10+1+50/10=11



V(S,S#)=1000, V(L,S#)=10000, V(L,B#)=10000, V(B,B#)=2000Pre:

T(B\sim L\sim S)=10000*2000/max(1000,2000)=10000

Post:

T(B\sim L\sim S)=10000*2000/max(10000,2000)=2000