1.(1) 4096-128=3968bytes

12+16+32+70=130bytes

3968/130=30(向下取整)

可以装下30个records

(2)(i) 24+1300=1324bytes

3968/1324=2(向下取整)

5/2=3(向上取整)

需要3个blocks

(ii) 3968\*3-1324\*5=5284bytes

空余空间5284bytes

(iii) 由3968/1324=2(向下取整),1个block不可以满足要求

考虑使得1条records跨越2个blocks并将5条records存入2个blocks

1324\*5+12\*2=6644bytes

3968\*2=7396bytes>6644bytes

需要2个blocks

2. 4096-128=3968bytes

(i) 59\*(63+4)=3953bytes<3968bytes can be stored in a single block

(ii) 39\*(94+4)+10\*(100+4)=4862bytes>3968bytes can’t be stored in a single block

(iii) 50\*(11+4)+10\*(13+4)+20\*(148+4)=3960bytes<3968bytes can be stored in a single block

(iv) 2\*(1982+4)=3972bytes>3968bytes can’t be stored in a single block

(i)(iii) can be stored in a single block