Comp 3411 A7

Meng yang Zhang

T00696467

Q1 a) 116, 22, 3, 11, 75, 185, 100, 87

Total amount of movement : 421

b) 100, 116, 185, 87, 75, 22, 11, 3

Total amount of movement : 279

c) 100, 116, 185, 3, 11, 22, 75, 87

Total amount of movement : 363

d) best result : minimum amount of movement (279).

Q2 a) 116, 22, 3, 11, 75, 185, 100, 87

Total amount of movement : 421

b) 87, 75, 22, 11, 3, 100, 116, 185

Total amount of movement : 267

c) 87, 75, 22, 11, 3, 185, 116, 100

Total amount of movement : 272

d) best result: minimum amount of movement (267)

Q3 a) track $50 \times 512 = 25600$ bytes

surface $2000 \times 25600 = 51200000$ bytes

disk $5 \times 2 \times 51200000 = 512000000$ bytes.

b) 20000 cylinders

c) $2^1 \times 512$

$2^2 \times 512 = 2048$ bytes

Q4 $8 \times 120 \times (200 + 240 + 270 + 320) \times 40/6 = 408/44/6400$ bytes