180810062 Radhiha Pahumi

Question 4

(a) KT

(6)

18C S10062 Raddika Patware

Questian 3

(a) Lohens = 30,000,000 toal bytes for all tokens = 8K30,000,000

teure = 150,000 total byta for allteuns = LPK 1,50,000

:. that by te = 240,000,000 + 4,200,000

liver, transfertince perbyte = 2 × 10 -8 8

to 15 blocks, any seek time = 5 K10-3 g :. Votal time = 5 K10 3 + (2 K10 -8) (244, 200, 500)

= 7 K 10-3 + 4.88

· Conjare & swap word speed =

: ! Hal sorting time = 10-8 K (1,50,000) log (1,50,000) 5×10 + (2×10-8) (244, 200, 000) (9)

4.885 see

0.005 + 4.88 4.885 300

LUU, 200, 000

(d) rup: Decom

Collection -> (x toung, list(docto)), <tunz, list(docto)), <tunz, list(docto)),

Reduce: (<tam, (doc, doc_)) \ (<tam, doc_1:1 \\
<tam, (doc_3, doc_2) \\
i doc_3:1)

(e) Maphedure Algorithm ean handle there cases.
We can divide the fosting 48th of towns into 100 GB data using an initial proponening map function.