

9. (2019)

Priority Queue

(a : 100) (b : 160) (c : 250) (d : 300) (e : 320)

start by removing first two data & combine their frequency as parent in a tree

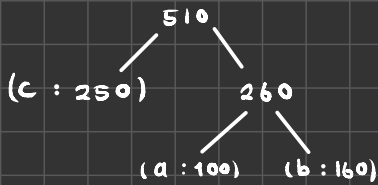


storing back the parent into the priority queue

Priority Queue

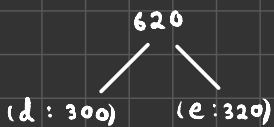
(c : 250) (: 260) (d : 300) (e : 320)

Repeating the process



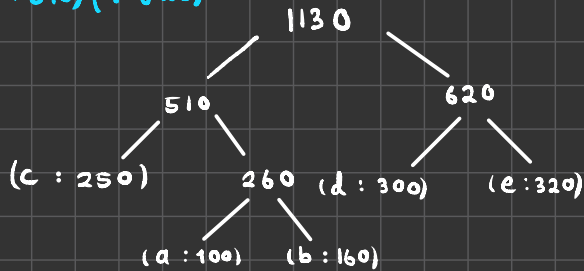
Priority Queue

(d : 300) (e : 320) (: 510)



Priority Queue

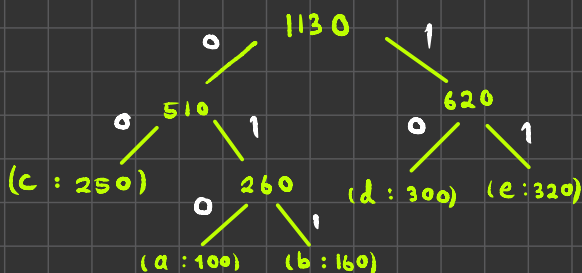
(: 510) (: 620)



Priority Queue

(: 1130)

Huffman Tree creation complete



Encoding

a : 010

b : 011

c : 00

d : 10

e : 11