Jai Jain

1BM18CS040

Date ___ / ___ / _____

Saathi

Binomial Heap Decrease key (H, x, k)

if k > key[x]

then error "New key is greater than current key"

key[x] ← key

y ← x // y initially points to node x

z ← p[y]

while z ≠ NULL & key[y] < key[z]

do exchange key[y] ↔ key[z]

If y and z have satellite fields

exchange them

y ← z

z ← p[y]

After ensuring that new key ≤ current key

Assign new key → x

Delete (H, x) :

Binomial - Heap - Decrease key (H, x, -∞)

- Binomial Heap Extract min H

// Node x is made minimum key node by assigning -∞. This is then removed by Extract min from