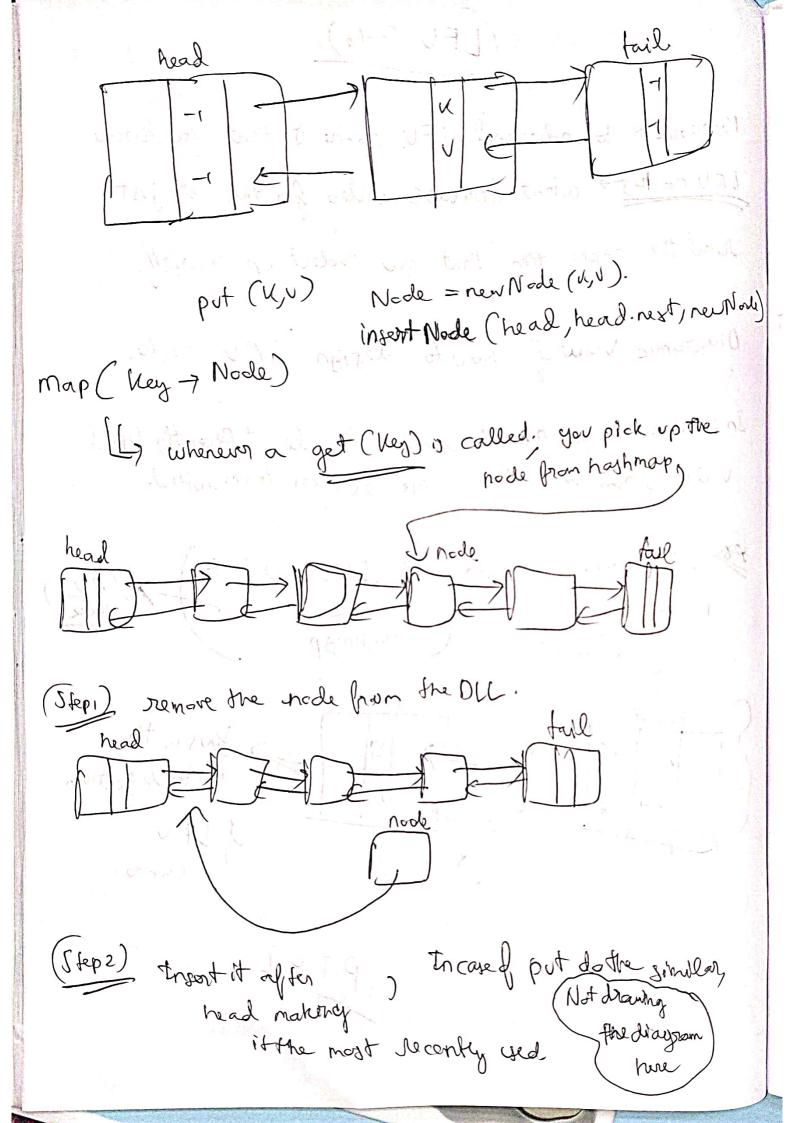
(LFU Cache) Prerequisite to understand LFU cache is that you know LRU caches > what Strives s video for this or just read the explanation that you cooled up yourself. Diagramic View of how to degran GRU cache. In LRU cache, you have to remove the least Recently Used value from the cache in case exiction is required LRU cache, remember, Doubly Linked List (LRU) Node frev, rest; head | N=-1 nust | Stris is the initialization | V=-1 | Cache.

(P.T. What is a series of the series of the



Now we will use this to build LFU, cache.
I was planning to have, my thought process
El construir and the work of more than the
Map (Integer, Integer) -> Key to the ovency map
map (Integer, LRU Cache) -> Ereaurey to CRU rache implementation.
Henry a - Wign't com = posion to and -
Now I was! trying to implement this LRV cache again and In each
brequency I would do not sold and the price it was a
mp-compute Il About (freq, (Integer deg) > new [Rolachel
mp-(amporeal/norm) (foot) (thready her) -> new CRUCachel
Botthis implementation is way atough and time consuming
So then I saw the editorial and came across my
Challenget and Marked Hay hop which can simulate,
this I'm repaired since they preserve the order of insention.
Stores a. Emore less the bunks they had of man lasy
new LinkedHashmap () (capacity, If there)
Cavarants it into before
Cararada it into fetal
(P.T.c) Basically English and is moved to the seek sught now is moved to the

4)

But we won't be used LinkedHashmap, instead we will
VR Linkedhauh Set the Miles of the Miles
and the services to make it behave like LRU.
LRU -> Cinked Hayhset o Tremove (Key) Cinked Hayhtset o add (Key)
Literatures int lrukey = Cintud North Fet-iterature(). rest().
Cintred Hastnest-nemove (brokey); 1stkey
So we will offlige the above behaviors.
Map (Integer, Integer) We need min Frag and not mad Frag be cause for
Map (Integer, Linked Hastreet Integer)?) eviction, we need to pop the
map (Integer, Linted Hastreet Integer) a viction, we need to pop the Key with least frequency. Put (all)
So when a pot happers, pot (k,v)
Step 1-7 gest previous brequiring of W = previous
Step 27 Remove key from the linkd Hothself previney.
Step 3 > new Freq -> prev Freq +1
Step a 7 insent key into the lithedhosh Setol new Treep
Step 5 9 Charles mostly heatford, then update Supdate mintred if nequired & mostly = restriction

Cret (all

when a get call happens, ->
Simpley get the value from the

map (Integer, Integer) ->) on wait you need to store the value along with brequency or costell.

Map (Integer, Node)

Nodes freat, value. get (key). valv.

then just triggen a

> put(Key, value)

Stud will take cored in crementing fire brequency of the Vey actomatically

See, code to understand properly. Practice writing the code

min Frey confusion, I the thing is in Steps of put, I did not clarify how to update minting

update mintrey 7

EMAN PARILLER

All are are doing be new treq = previous, and popping the Key from previous,

(hock if any Key is present in minterer.

if no key with frequent minterer. I no key in Cinkedtrashed?

of minterer.

Then min Every= new Every

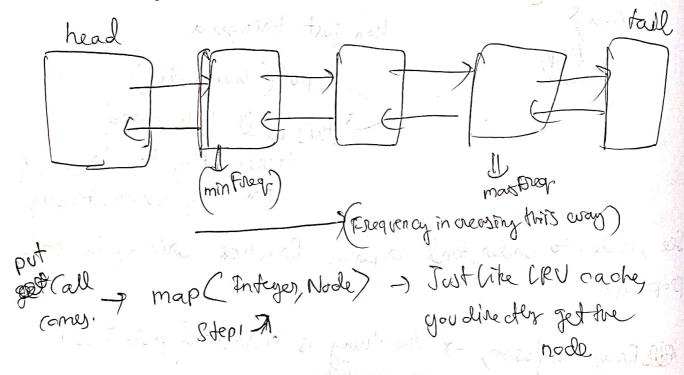
Since no sumove () apprasion so min Every --, never happens.

Sheesh! That was a long explanation.

But wait, there is a more intuitive way to implement LFO can while solving a problem. All O(1) datastructury

I was trying to do that using the LinkedHashfet and map (Entergen, Thregen) but did not work, so what worked?

Doubly Cinkedlist and having LinkedHashSet inside each mode



Step 2 -> remove the Key from that node, s Cinked Nayh Set.,

Step 2 -> remove the Key from that node, s Cinked Nayh Set.,

Step 2 -> remove the Key from that node, s Cinked Nayh Set.,

if empty the remove the node from DLL.

node = node - preu

node = node - preu

node = preu = null

node - preu = null

node - preu = null

node - preu = null

stepy you got the previous, from the node, new Frag = previoley+1 Check if (node-next-freq) = = new Freq may = new Frey Chare a new Node nuxt node ha with frey = new Frey and fus bley in the Linhed Hayhgel of that Mossle free, insent mode insent key into the Control Mashfeld I node and node-nest nestrode Jupdate the Colocation of the key mp-pot (key, node where gov inferted the key). from letts say another map hay Very > Valve get(all -) get the value and then do a put call with same Kleg value, this takes care of increasing frequency | the 70 don'thave to specifically maintain min Erean you know head-nest is the mintreg Node. Alliantaged this approch 2 this allows you to support decrement of trappency of key 3 intuitive and Similar to CRU cache