The Little of the publications of ferrocle and feature of the weguing of fine note of the weguing as it is a fixe and make NEW point at it. Algorithm to insunt a woole in the front of the linked liebed list: Liebed list is a lieben date strundture in whiteh the list is amenged logicolly. It essentially consists af noctu in which also dued a painter is structured. Define liet des and emploin algorithm for incention NEW = Getnock (Noole)

17 (NEW = NULL) then

Rewent " Memauny in insuly recent : new node

cannot be insulted " A B Y C Y D X Gurunton at beginning of the linked but :-NEW -> LINK = Headless -> LINK Adgowithm: INS\_NODE\_FRONT (LIST, X) iii. Headley - Link = Headle Headen. LINK Ity : Enel? dep 5 : 590P Explanation :-

· Lu Mep & if NEM points at NUL there a fuer wock of node is not available and immittion of node is not possible and lunce we will at this point.

• Le My & if a rode of fiver live is available in Arigh the date x to the new rock. Into the solder the

11) LINK of header Mould paint out NEW ou NEW now becomes the funt work of the header list.

1.e. Header - LINK = NEW

III) LINK of NEW whautel point of deader - LINK i.e. at the i.e. NEW - LINK = Hearden - LINK

. The 4 marks the and of the if statement · tep 5 auch the algorithm. Expetain Concept and algorithm for thorouning a circular A cumulan linked dut is a ringle disked the interest YA THE TOTAL

Muceuling a cumentary linked list: ... Algorithm: - Awavene\_csii (Headen)

Lep 1: PAR = Headen -> LINK
Lep 2: While (PAR -> LINK 1 = Headen) do
puoceu (PAR)

PTR = PTR - LINK

Ltep & :- STOP.

Explanation :-

· Lie the safter above algorithm we decurch the linked in the the made day note point of the header node we will stop on the Leaveling in our points in every thing in our possible node. In over the decorping in our possible node. I wish the doop. We wish used node ours process it.

Note: - In a lingle dilited that the secuebing in done like form I'm PAR - LINK down not paint at NULL and him Chamban linked him seauching in done till the yeart node down heat point at that in the Headen

Live everitable in the nemany boux. This conflitted is to elect this condition of in educay vecessary to elect this condition before inserting a dode if all the work of modification is not absiliable their insertion. ". Gaubage Collection: - The nointenance of data structure world intended of the new souls structure dead thence elegimen some neckoning work provider unevent in nemony space for the new noder. Some mechanism is negatived when ". Overflaw: - suppose we want to invent an element in do node of nequired the nemony space the deleted note becomes swellable for element be the date struncture in unply and we are tuying to delete on retinent from it such a londition ") 'Periodically all the detected spaces can be collected and can be done of Min can even be done of MINDIALICAMERA CPU in flux future ile. Collection of nocle that are no donger in in possibility attention of face nocle for receive in known or gaubage collection. Gautage collection can be clone in two ways. allocable mending lauge enough to chard one element. in Anoun or undenflow complisher and should be ". Unden flaw :- Consider a date at mueture with no i) After a nade is detected, it is directly put into the cheefed before performing the delition Openation Muits shout note :memary bout

Memaury Bary 3— Memaury bank wi nothing but a love pool of the memaly churcks can be af clifferent sixe when a linked list of memaury church as the weeken will be picked up from this pool. If we worked his can be invented in the linked list of magined on a linked with a free works in the list of magined on a linked with the fine for the mode in the point. ™ In that pair the noder that are no Jonger acquired of the relation and nareled. Offer the second pair ell there nocks are collected and 3 port in the pool of flee works for further news.

3 Cambage collection is after done automatically and in mat visible to the persquammen. Quebage Collection is clone in two stips. Micked together wing wings. AVAIL 5. Explain algauithm fau deletion of the diuked dit.
Seletion in a diuked dit is paintele by newely adjusting a position in eletined work is untrumed to the methody

he deleted nodes can be everturned to the numbery bank by suite the fallowing algorithm. It is conversiont to invent the node by function of the AVAIL UST in the memory bank.

Adgowithm: Return woole (PTR)
The adgowithm will return the delited woole to the
menousy bound it will be added in the front of
the AVAIL LIST.

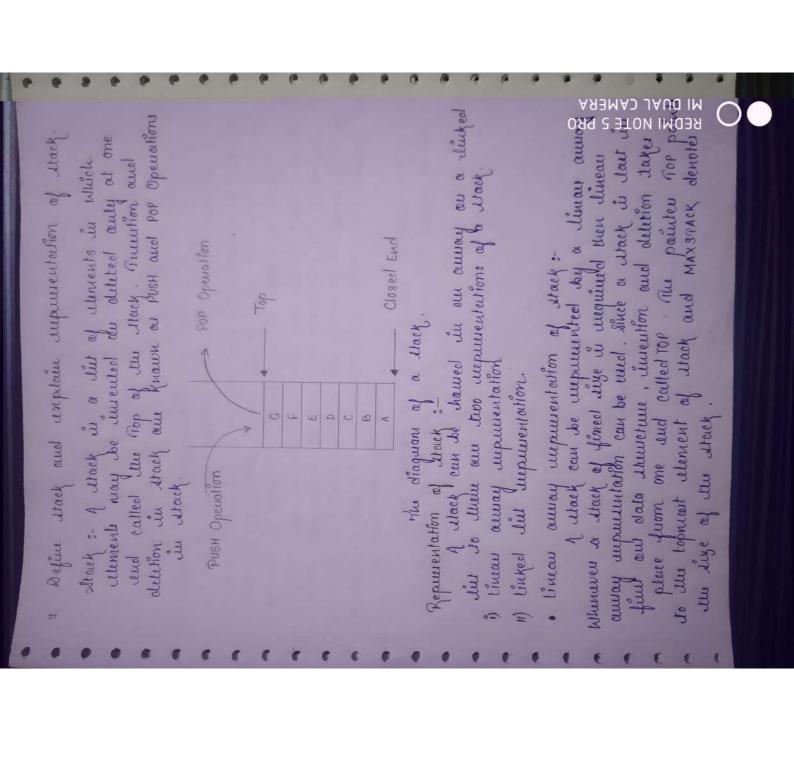
PTRI = AVAIL -> LINK
AVAIL = PTR
PTR -> LINK = PTRI
STOP

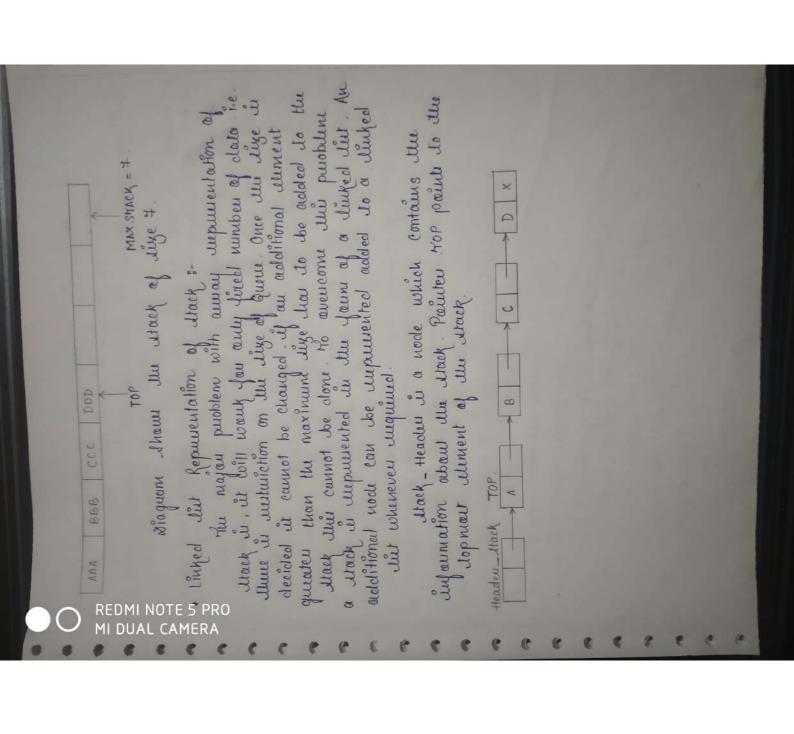
REDMI NOTE 5 PRO MI DUAL CAMERA

i) Thurution at the beginning of the Chrewton linked with RR II) Thurution at the end of the Chuculan linked with NID Insulion after a given key volue in the Chuculan BIN. The algorithm will travene the Chucular Linked Lit.

St is culumed that the Chucular linked Lit inducedly pounted in the numbery. Headen is pointing at the fine the cument wode. Purcent is applied to the date of the Cument wode. Trueuting a woole in a Chereulan linked list.

4.0 fue nocle of required live in avoilable in the nervenum bank then outh meeting in parilible offerwise a nocle cannot be invented in 3 ways. TAN TO THE TO TH in which the dad nock in painting at the first node 6. Explain Chuculan Muyed Mit in detail. thep of the (PAR - LINK . ! = +leaden) do Twavensing a Churculow linked list. Nun 1 :- PAR = Headley -> LINK PTR = PTR -> LINK puoceu (PPR) End Mulle





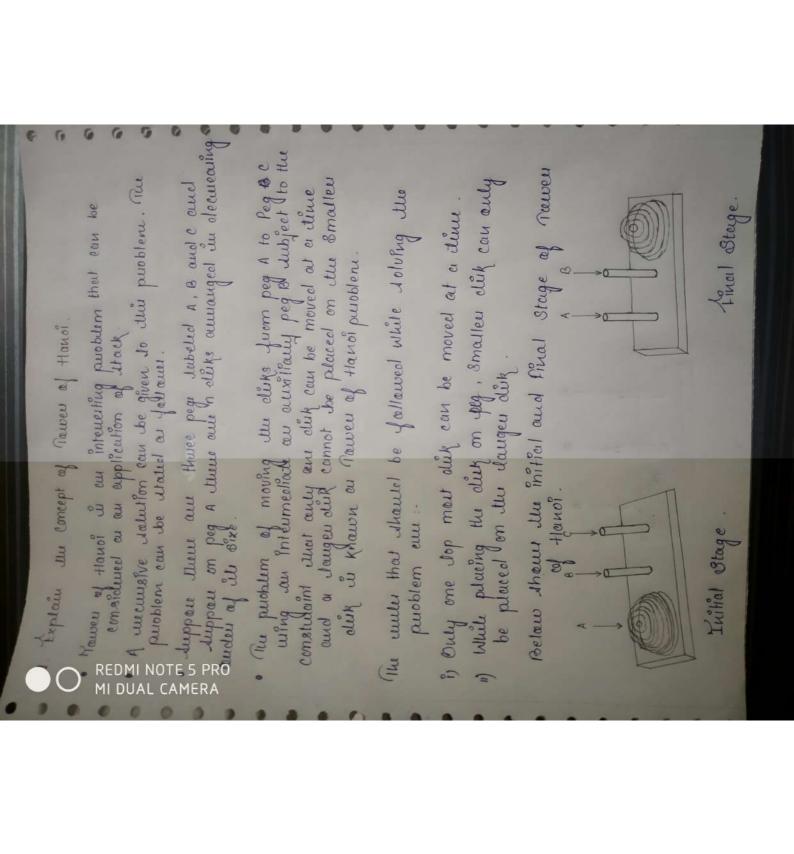
Explain quiet sant alganithm in detail.

quiet sant Adomithm is divided into two pauts

quiet procedure of this proceedure actually perfamin the quick Nuoveedum: Quick (A, N, BEG, END, LOC)
This purcedure performed the quick Sant operation on the away A with Live N. Palameter BEG and END Centain Lie boundown velue of the Lib Alls of the public of the Line Leeps though the pairtion of the Lieut element AFBEGT of the Sub Lits olding the proceedure. The Verifable LEET and RIGHT contain the boundown value of the Lie Lieut of Quicksout algouithm: Thui algouithm considers the aurory on which quick sout in to be applied. It poutitions the ording into sout its out of procedure quick to sout the a) Repeat while A[10e] <= A[RIGHT] and 10c + RIGHT LEP 2: [Seen from wight to left] " I interichange A [Loc] and A [RIGHT] TEMP = Alloc], Alloc] = A[RIGHT] retement that have not been stanned. A[RIGHT] = TEMP b) if LOC = RIGHT then Return e) if A[LOC] > A[RIGHT] then RIGHT - RIGHT - 1 11) Set LOC = RIGHT m) Go to Step 3

the 4: I Plus wight web with out atacks when it has 2 LEG 6 :- [PUSH Left Lub wint onto when it has 2 an LEEP 4: [Pop sub list yourn stack]
Set BEG = LONTER [TOP], END = UPPER [TOP], YOP = YOP-1 Liep 1: YOP = NULL
LUEN YOP = YOP + 1, LOWER [1]=1, UPPER[1] = N Algouisthm: quexsost. The owney A with N whents. TOP = TOP + 1 , LOWIER [.TOP] = 10C +1 , O of Repeat while Atlept] <= Atloc ] and LEFT + LOC Lttp 3 :- Repeat Lleps 1 to 7 wohite FOP + NUL TOP = FOP +1 , LOWER [TOP] = BEG LEP 5: Call GUICH (A,N, BEG, END, LOC) TEMP = A [LOC], A [LOC] = A [LEFT] UPPERLTOPT - END " [ Interneheuge A [ LEFT ] and A [ LOC] UPPER[TOP] = LOC-1 an mace ulements? LEP 8 5- EXT END OF STOP 3 LOOP ] 9 BEG < LOC - 1 then A[LEFT] = TEMP I sean from lyt do wight] TEFT = LEFT + 1

Mal 18 Loc = LEFT then Return naue illement ] SCT of A [LEFT] > A [LOC] then LEPT = LEFT + 1 11) Let 100 = LEFT m) Cloto Lep 2

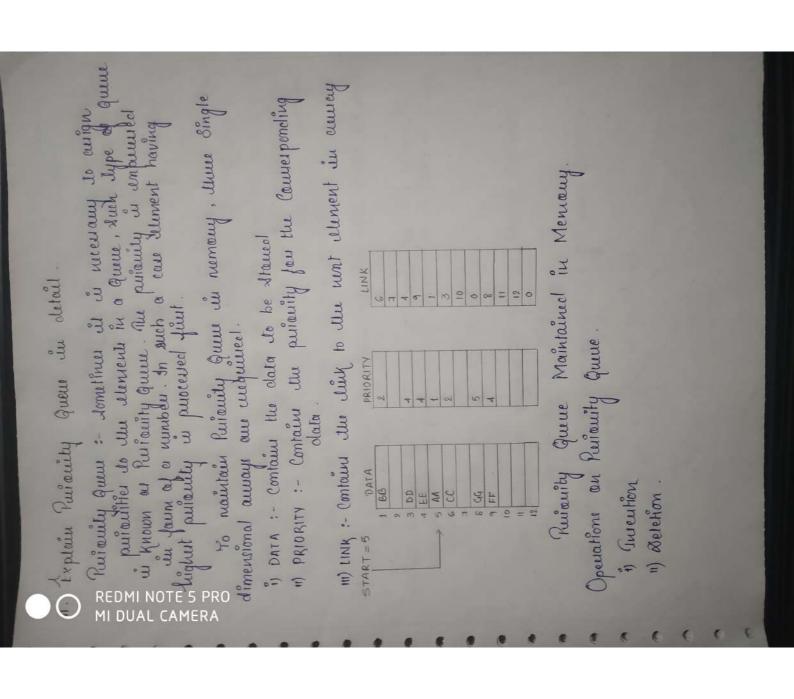


REAR and uniperfively. The major purblen with aureay suppresentation of quine is there is a decided in a will woughten on the light quique. Once the light is decided to the maximum light teat to be added to the queste their Cannot be done.

By See done. Exploie representation of quiere wing linked that 1 FRONT :- frumt pointer paints to the fint element (node) of the queue. 2. REAR :- Reau pointeu paint do utue dat Memente af

Biaquammatic unpuventetion af a queue wing Single Juyed dut.

Headen FRONT & B > C > D x



DO WHEREIN a pain of live 1 our tuivially santed There points of the point of live 2.

VAC I the habite our nudged to get a santed Sublists of live 2. · Their pains are exact nieuged to get a santed sublitts of live 4. Pautibly the clar may wemain without a pain on night have the hunber of alements. The proceedure in supersteal this out the clements in the list are doubted. Exemple s- consider the fullawing the with seven element films subdist of size I ame formed for the given lit. Each subdists to troop tuivially souted on it contain single Meuge sæut in Southug method which interesty shirlder arm

■ Hut into sublit of sixt 1. Poin of their sublits our There pain are newged to get the Souted Bub luts. garmed. It must be noted that the dost sublist near nemain The above substitute are received to get two substitute of stife 1. Explain Meuge Saut with Suitable Example 50,50 10,20 20,25 25,55 69 50,30 20,10 25,35 60 10, 20, 30, 50, 25, 35, 60 30,50 10,20 25,35 60 TO WITH a pain.

There two sub like our newged to get the final souted

0,20,25,30,35,50,60

Amom the above amaniple it is Observed that

Often & pour the accordant is partitioned into Souted out accordant has according the dost

. The Meuge Sout edgowithm siegulus at the most dog n posses to solut our authory but with N elements.

Each Jub arway consists of Lulement uncepts the

of we olivede the total number N af the elements in an among by 2\*1 then the quotient obtained gives we the joins of L elements souted out

Q = INT (N/(2\*L))

The total number of uliments s of out always all

5 = 2\*1\*9

. The number of unnothing Menent au 8-1-8 18. Explain unpumentation of binauy ture in nomeny binauy can be unputerated in two ways

1. Lequential on Mueu unpunentation

1. Unked unpunentation

· Sequential as linear unpursentation of binary true:

to there o binary true: if a binary true is Complete true
this is the nearly efficient way of steering a binary true in
the nameny. In this suppresentation if the pount is stanced
at the Kie docation then it that elited will be stanced
out (2k)the location and the wight elited is stanced at (2k+1)the Location.

Paul exemple 3-

The Lincoury tere can be stained in the memory wing

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