Porovidy Quene = defa Extension of queue

Sement has priority associated

Selement with high priority is decueved

before element with low priority if two have some proverty, they are secured acc to their border en queue. -> Highest ASCII high value > insert (c) \rightarrow C \rightarrow C \rightarrow n (D) -> COD remove max -> CD 0/P-0 insert (I) -9 (DI MIDD (N) remove max > cDI 8/P7N Emsert (9) -> CDIG Implementation in Array > Insert O(1) o gettightriolity O(N), deletploto Using Heaps > (generally prefred) gettighest Priority > 0(1)

Insert > 0(Log n)

deletetligh Priority > 0 (Log n) with fibonacci Heap > inst gette > - Ol

Poliority Queue Element has priority associated · Element with high priority is decueved before element with low priority
· if two have same priority, they are secured acc. to their wider en queue. > Highest ASGII high value = $\frac{insert(C)}{11} \rightarrow C$ Mind (D) mind (D) milk remove max -> CD 0/P-0 insert (I) -9 LDI MIDDUE - MCA) PIL moent (9) -> CDIG Implementation in Array >
insert O(1) = getHighPrioratey O(N), deletP/01(N) Using Heaps > (generally prefred) gettighest Priority > O(1)

Inset 7 O(Log n)

deletetegh Priority > O(Log n) with fibonacci teap > inst, gett -> -8(1)
delete -> 6(1)

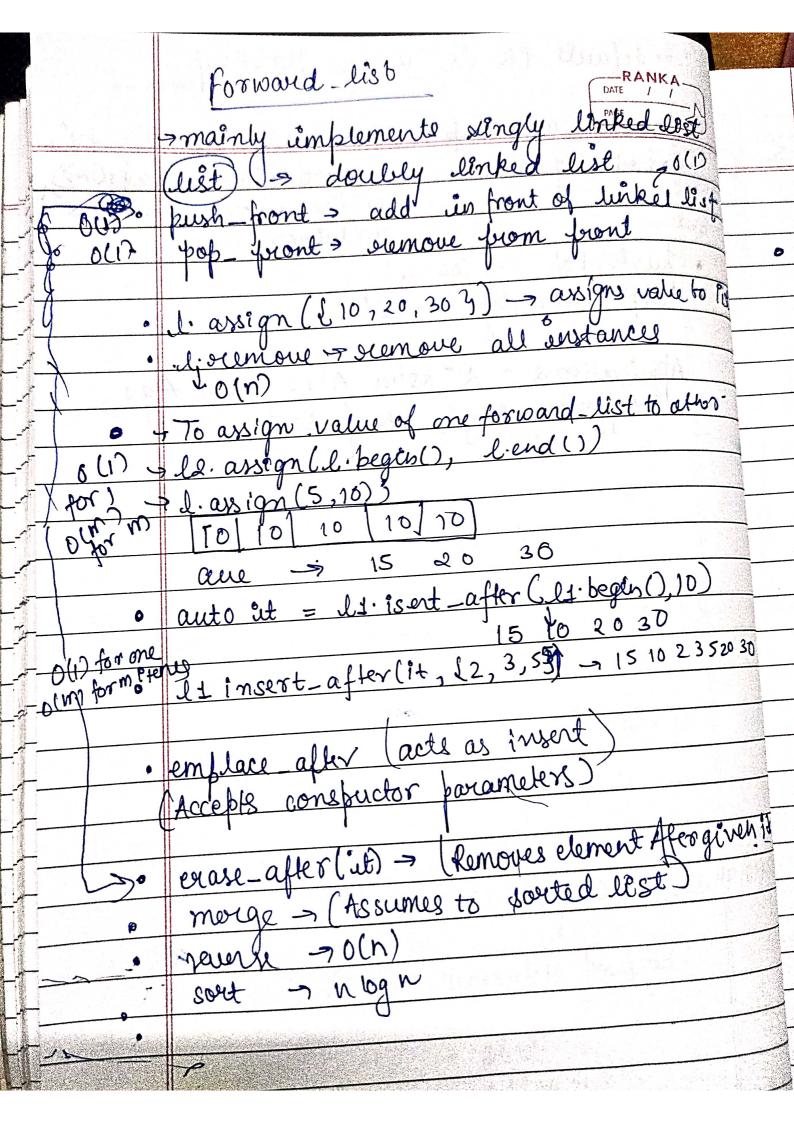
Jefault på is always Markeab.

Courte på min heap 3

Speionity queue Line, vector line, grankoline,

Spaionity queue Line, vector as unduline

container Applicatione > Dijkopa Algo, sim Algo,
Huffman Algo, heap boot,



OW (insu, pap -er) hist 1 implemented as doubly winked wist. list Lint> lo, l· bush-back (10) 5 5 = 10= 20 push-front (5); · l'insert (1 ferator, value) (11), frequency, value) Josephs Troblem Wing List & to use corentar lonked 18stlist (int>1; fortint i=0°, i<n; i++)

d. push-pack (1);

auto it = l.begen(); while (l-size () > 1) ₹ yor cint c=1°, c(k°, c++)

₹ pt++ if (it = = l.end()) if = l.end() it = l.begin(); it = l.end(); it = l.end() it = l.begin();refuri dell begin ()6,