

Shrikrushny 6 Tirape 21286. add to the transport

Hard The Marie House Problem Statement:

The ticked booking Eystem of anemax theater has to be Implimented using C++ program. There are 10 rows to 7 George in each now. Doubly charles linked list has to be maintained to treep track of thee Beat of rows! Assume some random booking to start colth. Use array to store pointers to each row on demand.

a) The list of available send is to be displayed; by The sead dre booked. he booking can be Concelled.

Objective 1-

o to understand ase of linked list

Octome! -

- 10 To impliment ticked booking eyestem using linked list in C++. O white menu driven program in
- 3 To impliment uses derined function in Ctt.

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operatind eyetem (64 bis) Fedoralt programming tool. lutest open. Source.

Theory!

linked list!

A linked list is a linear

Collection of data elements. where

order is not given by their physical

placement is necessary there are

element. points to the next.

It is a data at sucture. Consisting or

Collection of nodes which together

represents a sequence in his

most busic forms, each nade

Consist of data so ref i.e. link to

the next node in the sequence.

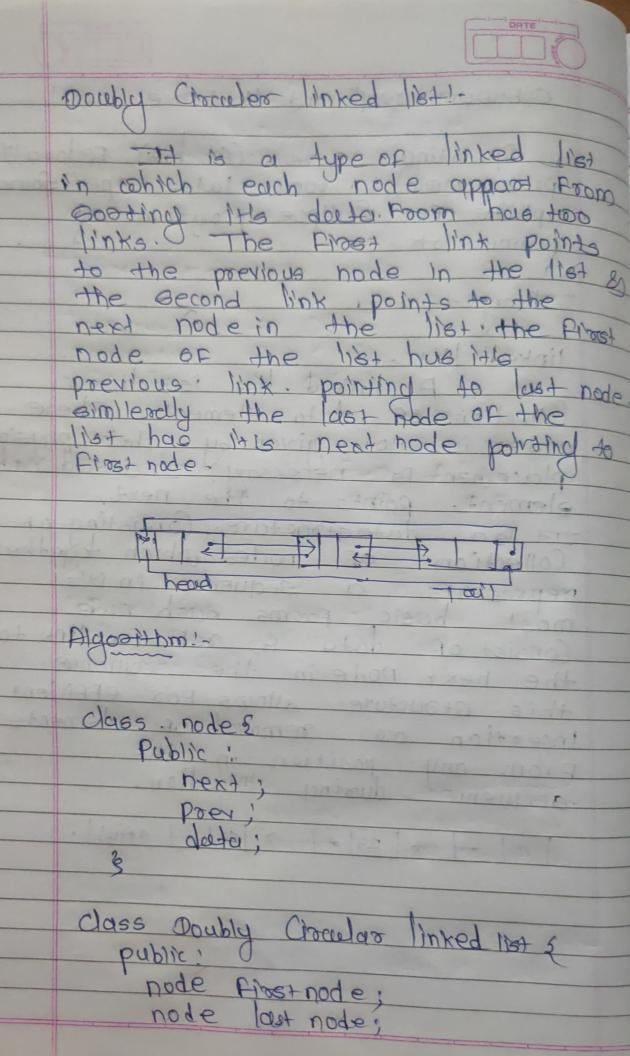
this stoucture allows for efficient

insertion or removal or elements

prom any position in the

sequence during introdion.

2 - > 23 0 7 50 - + Hul.



1) Traversing elist. Forwards! node := list. First node. While (node next 1= list last node) 20 perate> node : = node next · Backward · node := list. last node while (node prex 1 = list . First node) <operate) node := node · prev @ Inserting a node: 1) Algorithm insertion (list 15), node node node, neconode) Begin 1 newnode previonade node next := node next 3 node next := neconode End Algorith Remove (list 16+, noderlode) Begin IF node next == node 110+ last node = null olse ' node next prev! = node prev. node previnent := node next

	B if node == list. lastnode
	g dist node := node prev.
	in destrounade
	11 end
	and the state of t
	4,000,000,000
	Time Complexity!
	Traversing > O(n) broaders.
	Traversing 7 O(1)
	inserting > 0(1) Delete > 0(1)
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Samuel	