Abstract class can't be made without wild class . We want to restrict object to be created without inheritance. what is the way? . Make constructor private declaring a private constructor con help to do 10 (stop creation of object) owny to do this? We want to restrict number of objects (It doesn't mean we don't wont to make object. It means we want to control the number of, Objects) ett commector is used private men no obj can't be made. In his situation ese morde state functions. ostatre function will call constructor. · Take count of count & vange create new object. otherwise don't deate object. Telan copy withuch bhi bran saltanew int maine) & sj=cheek "get object(); or obj check tobje = check (+obj Led it; Obj 1 > get object 1); Cheele obj 2 (40bj 2) 05/1 -> show(); copy constructor

Static mendy class check ? count ++ function cany call simple public work without spect static checket getobject() () membership void show () 5 · ropy constructor must be private check (check &) 3 3 want ++ Pointer means to return address in object or return NULL, or por static cheek * getobject()) } -> Static int count; ODAD software Engineering I object oriented Malysis & Design Design Patterns psay our -> Singlebon Pattern only Tobject > MUC (Model View Cochbroller How bo? get Object () { if (ply== NULL) ptr = new cheek; return ptr Example: principal must be 1 This pattern enforce there must be a object

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Nuc pattern is used most of me time mobile apps View The thing that we will view to me usel. snow on screen, browser, mobile screen Model View It is basically your data a student Hember reacher Mender data Reference books It is busines logic Controller Add courses dep courses Linked list · when you make array it is configuous · compaction reparates space and reserved memory but it's difficult task · But speed in improved. · Sometimes you want to space data contiguous so you used linked list · Ston elements by linking glast populy, ->x point to nucl most fells has the block is Ply as pointed of last. next node.

· conceptually it books like bai das Node & int data; Node Amexti Wode (int d) ? data=di next=NULL; 3, don Linked List & Node + first; means not a LinkedList() & first == NULL;} Public: void odd Element (int e) ? · First create a node Node n(d); · 2nd step how to link There are 2 possibilities oif it is first node then first = &nj first is pointing any node other make a node persee must a call it first first & first 3 fint

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