DATA STRUCTURE

NOTES

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Data Stracture:

i) Data strauture is way to stored Organised data so that it can be used efficiently.

ii) the dada stracture is not any programming language like c. c++. Javo, etc. it is a set of algorithm that is used in any programming language. like c. c++ , Java

Types of Data Stracture:

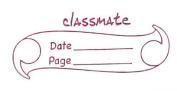
I Primitive dada stracture

2 non-primitive data stracture.

primitive data stracture:

the primitive data stracture are primitive data types, the int, char, floct, double and pointers are the primitive data stracture that can hold a single

value

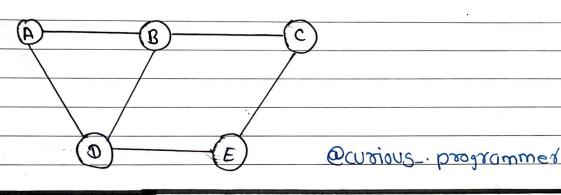


2	non-primitive data stracture:	1						
	class, object, array, string and							
	interface are non-primitive data Stracture.							
**								
•	Arrays:							
	arrays are defined as collection of	The second						
	Similer types of data items stored in a							
	continious memory location.							
	arrays are the simplest data strature							
	where each data element can randomly							
	accessed by using it index number.							
	@curious_programmod							
	CONS- Programmes							
	arex 0 1 2 3 4							
	and > among variable							
	[0] -> index of element							
	Linked List:							
	A link list is a data stracture							
	that has sequence of node where every							
1	node is connected to next nod by its							
-	reference aumaber pointer.							
+	V4-0,010							
-	each node has two parts:							
\dashv	· a data feild							
+	· a reference of next node.							
+	a d vacinity of their trace							

	САЗН								
	DATA NEXT - DATA NEXT - DATA NEXT - NULL								
	Lin Ked list.								
છુ	Stack:								
	A stack is a linear data stracture								
	that Pollows LIFO Clast in first out) approach								
	for accessing element.								
	push, pop and top (or peak) are basic								
	operation in Stack								
	@ cundus_ programmer								
	applications:								
	Devaluating postfix expression								
	a Reverse a String								
	3) problem or infix to postfix								
	4) check for balance parentheses								
	in an expression.								
:	pop	-							
Į.	push / Pop								
	9								
	(stack)								
1									

		Ì
4)	Dueve:	
بن	a overe can be defined by as an	
\neg	ordered list which enables insert operation	
	to be performed and one end called	
	REAR and DELETE Operation can performed	
	by another end called front.	
	Overe is Reffred to the first in	
	First.	
	FRONT @wrious-programmer	
	+	
	Dequeuc+ > enqueuc	
	1	
	REAR	
ر ا	TREE:	
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6	Graph) :-								
								fined as		
								rostices		
	that are		used to		Conne	ecte	that E	vertices.		
		41,								



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TELEGRAM

LINK IN BIO

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