Se ·	Date:
	E.OM 9
*	What is Data Structure ?
1	:
\rightarrow	Data Structure is a concept, It is
	Branch of Computer Science, But it is
	20+ CI I COMPUTE SCIENCE, BUTTING
	not a language.
	Deutei Standure is a Concept. eve
-	- 5 hours that back the Data
	Stored Inside the mamoria and
. 71 1	Cohat is the Relation of the
	Duta with another Data.
	the.
14777	
T	the third has been a second to the second to
100 6 5 9 10	Onlar Clause
	Data Stoucture.
4 22	
` `	and without it is
Laimi	tive 09. Non Primitive 09
See History	
int floor	t Char Double Bool Linear Non linear.
	- A
	- Array - Tree
-	Stack Charph
S	- Queue - Hash
18 7	- Linked List Table.
The same	
_	Primitive Os
14	
300.00	a literatura da li
	Storage is called Primitive Ds.

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	Ex- y mortangianthar di tarin la
	inta, b, c, d, e;
	English the second of the seco
	nonemental to ball of
	a. b
	1 minimum 12 Stagger
	1028 C. 5024 d. e. Store in
,	Memory
	1036 1230 1434. Like this.
	Comment of the state of the sta
	Individual
	Variable store.
	Individual esta or
	entite pto store single Entity
_	Non Primitive Ds.
,	Police Hims Os Rolling Police 1019
L)	Data is not a Individual Single Entity.
	Data is in Bulk amount of Data.
	i mile man man to the stand and a forth his
3 -	517 - Dinon G
0-70	Lineur Ds (Sequential Ds)
	(x,y) = (x,y)
لے	A linear Ds is a type of Ds Where
	elements are arranged in a Sequential
	J
	Ex - Array. int a[7];
1.	Sequence
	917 91 4 fin 1/2 9
	٩[٥]

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41,	2.Mo.:
	05
	Addition to the state of the st
	· · · · · · · · · · · · · · · · · · ·
	Static Dynamic.
	- Array - Linked List
	The state of the s
- · · · · ·	in the second of the second second
_	Static.
بـــــــــــــــــــــــــــــــــــــ	The alass Time compaint of Data.
<u> </u>	It's Allocate the memory at Compile.
	Time.
	at compile time chirage has a fixed.
	Charles I land
	Size.
18	Ex - (a) (a) (a) (ac)
	Array (6) (0) (01) (05)
	Ford year Lead
	; Loz I von tri
<u></u>	1 1 200 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
	3
<u></u> 4	
	Data 10, we cara's Neither more
	can be added not less; if we add
	less duta, the memory could be wasted
	J

	: ested : P. No. : P. No. :
_	Dynamic.
لغ	It Stores duta in Changeable size.
	UWUMAR CIMINATION
<u> </u>	The Cillo (Cliff) the manner of the
<u></u>	The dead metal memory
	size.
ر _{حا}	Memory can be increased or decreased.
	es per requirement.
	Ex- Linked List.
	CHIKEL LIST.
	A NOW A
	$\begin{array}{c c} 10 \longrightarrow 20 \longrightarrow 30 \longrightarrow 40 \end{array}$
<u>ل</u>	
	we see in above, duta can be added or removed at runtime.
	No memory is wasted because only
	the required memory is allocated.
<u></u>	time.
. 4	10 40.
-	

Date: P. No.: Implementation 水 There are two ways Stouctures: Array Implementation 4) Fixed Size; may lead to overflow or wusted memory. inked list Implementation Dynumic Size, can grow or Shrink as needed