11	* C noles	A.I.S.S.M.S INSTITUTE OF INFORMATION TECHNOLOGY Kennedy Road, Near R.T.O., Pune - 411 001.
A	Data type:- 13 auto (By difault) 2) Static 33 extern	Stack Statie Heap area area area autos Statie variable value
	By default; levery time (garbage) Static = only the Size (the default value	used wherever funct fini, stackly call the value is assigned value) is assinged once (at runtime) is 'o') tside the main fun();
	Example: Zint a=3: if (a d=0) print (int a) print (int a) z a;	main () without static int i=3; Infinite Loop ifCit-) 2 Pf(i); Static mem allorat main (i) at runtime (once) i [3] i [2]-[1]
*	int a=10; int 'xb; // int e=8va // enror as we storing in 2 byt	a=1 in 1000 b= Mbyte 2000 address in Mbyte and e int (if not error the int Mbyte)

	14	*b=pointer declaration (holds 4 byte address)
	tai	*b=pointer declaration (holds 4 byte
		address)
1)	A	we we array instead of steach on me
	1	an access any index element, in stack
	u	an access any index element, in stach to have to do operation (push & pop)
	=	702
		- to find from the random index - loop + (60-10) x 2 byte (Data byte lize) Starting mimory loc to access 1 start adulture
		- 1000 + (60-10) x 2 byte (Data byte lize)
		=1 so to avoid extra calculation the index Start from [0].
		Start from [0].
	-	function 3-
		Function : Alway Veturn a value:
		unid main ()
		Void main () int add (int a, int h)
		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
		add (x, y); return () printf (# 1.0", z); 3
		printf (#1.d", 2); 3
		main() [memory] add() al 5 /4000
		x=15 y=16 C=15000 h 6 15000
		2 + garb

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L'all by reference!
to function then is loss by reference.
=> To Hold pointer Address us need pointer
Example: int x aidd (int x q, int x b)
int x=5, y=5; int x=5, y=5; int x=5, y=5; return 8c; z=add (\nux, \nuy); Af("1.d", Z)
$ \frac{1}{1000} = $
Paning Array to function:
int ac3 = \(\frac{1}{2} \rightarrow \frac{1}{2} \righ
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

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A to pas address we should have same
datature as if we increment the
datatype as if we increment the pointer then it will increment by
data size,
Ex int x=10;
add (8x);
addition *a); Tatt;
Here the ander will increment by hyte instead of 2 byte (int claraty)
A DYTE INSTEAD of 2 MYTE (IIII ELLICITY)
Pointon questions (Double pointon)
int a[]={0,1,2,3,4,5}
pt ("i.u i.u '.d", a+2, a+43');
To point address
1000 02 04 06 08
P [1000 1002 1004 106 108] address will be
2000 200 2 200 8 200 8220 86 Of 4 bights
P= 2000
*P=> (value at P) = 1000
**D=10



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Stoings 3-	
Char name[] = "Algo" name [A] elg D/10	
At the end of string the compiler will sho	
Example: - name[i] chan **pto; while (1 = io') ptr = name; pf ("7.c", name[i]); while (**ptr!='\o') itt; ptr +t;	
1000 01 62 03 04 Pts 1000 1001 1002	
To Accept Multiverse String yets (pame); scant ("15" Ename) will not accept 2 words.	
the address will be incremented by "210 The byte So pointer and doriable orray rome must be sames	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

Read Complex Operatos		Associativity left to right
* identifier	2	right to left
Datatype	3	
Example 3-	(* ptx)[3]	
27 0	=) (* ptr)	
=> Void (*ptr)	(int (x)(2), 1n 5 3 4 2 8	3 1 2 1+ (x) (void)) 3 6 7
	**	

Structure:
=) To accept the volues for different data
types.
Example:
Struct nock
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
int a 1/2 byte
Chan b; Mbyta
3;
Struct noch P = £ 10, 'a' 3
100
1000 1002 1003
A To Access the element use " p.a" (" p.b"
10
A use can also take Array for Structure
Example: Struct Dode P[5]; So to access
A Variation for diclosing Structure. Emp. C 1120
8 truct nocle C int a' char b' 3 Emp
C d
Struct nock 1 3 hyte
this will total have 5 byte
1100 WHI 10100 1000 3 10910

Structure with pointer:
Struct node Struct node xl = bk
Charb; Pf("/d", (*1).a) // 10 3; Pf("/d", (*1).b) // g
Struct rade K= \(\xi\) [0,'9'3'] \(\xi\) in proditional method
1000 1002 1003 Use are convert to)
(*L).a
[[50] A struct node * SE10];
8 tructure whose type is nocle.
Dinon:
(i.e only 2 bytes) & in structure whole 3 bytes will be assigned.

A.I.S.S.M.S INSTITUTE OF INFORMATION TECHNOLOGY Kennedy Road, Near R.T.O., Pune - 411 001. 960) 051 052 053] Union estill 150' 4 bytes will only memory