Pointers Ly vahiable contain the Address of Van L> Represent Address Type declaration) Chan + Pointer = &x 1- must contain * 2- & Address operator used to get addheff of a Vahiable 3- To acceff Nalue Stoked in specific Address => use x * Pointer=10 => X=10 X looko OXOI Pointer 0 X021 dataType is Jost 1 191 julio ão Cib data Type 1 Negon

int = Char = double float Sloat X = 12.3 int y = X => y=12 dels float ace is stell in lie all int int y=(int) X = weeks compiler 11 el chah X = 53 Phint X => 5 Was Assell all waters! int y = XPhint 4 => 53 4= (int) X Address casting PortA _ > Address 0X06 * PORTA = OXFF => OXOB = OXFF comfiler enroh espharellail Le 0X05] carthy dei piet Memony Il is is love APIS NEOD

(chan*) OXOB) = OXff 0105 > cogalicipais is 6 per 5 OXFF and Changlot. cis > 1 byteast ugall ciothe ((int *) 0 x 20) > 2byte ast us gall is it + ((int*)0x20) = 5 OXLO 00 0 X 21 Volatile reyword main () int X=100, 4=10; view compiler while (x <200) = oftimitales olepill children a soll memory 1 & out its all 65 let 1 20 12 0 1200 x 2 20 X 11 X 60 5 2 1 3 6 0 a) y w on condition II = 30 6 ml is by Him) X and red up i ite ai i vie S.W Jailb real is me are the oblichs

remarellailangistes les léville act primolo by Him Volatile Address casting > ((volatile chah*) 0 x05) No char I Address is & Le & by Himano as il acelling Defined Type 8 bit Mc le so Jail chill viere alle 32 bit make The alei 1 32 les alle The cie memily 1 (6 69 6 Vola Telsox alim 2 byter my white a 2 byter aplies I we to dea confilers ! ~ int chah double artill is well of view is ween to 8° 00 6 96 les > 2byte / 4Byte/8byte gridible our dataTypes de e glas x Type def un signed char u8 uint8-t € + Typedef Signed chan Sint8-t Number of bill Type defined & compiler & bit; > Type def un figned chah unit 8-t -> Type def un 191ed int unit 16-t Chan = 2 byte 111=> 254te compiler 32 bit - Typedef unFigned chah unit 16-t -> TYPE def un signed int unit 32-t 1/ Flant char unit 8-t -> Typedes Chan=> 264 int =>4 byte (KEOD)



: Type def b) reyword used in c to desine anew Type Typoder unrigned chan B * use -t in the end of your defined Type to make the usen know it's a se desined type Why we use Typedes ?? > code Portability => 8 bit of comfiler 11 UC s co de Readability Int (*app[4])()= g test 2, test 2, 3,4 in+ (*(*PFC)) (C47) () APPII coution & with Pointens + 4 Pedef *nt * int Pth. o int Pth Pth; -> with Ethecture -> with function Pointer +48edef int (* aff Anith B) (int affAhith X =



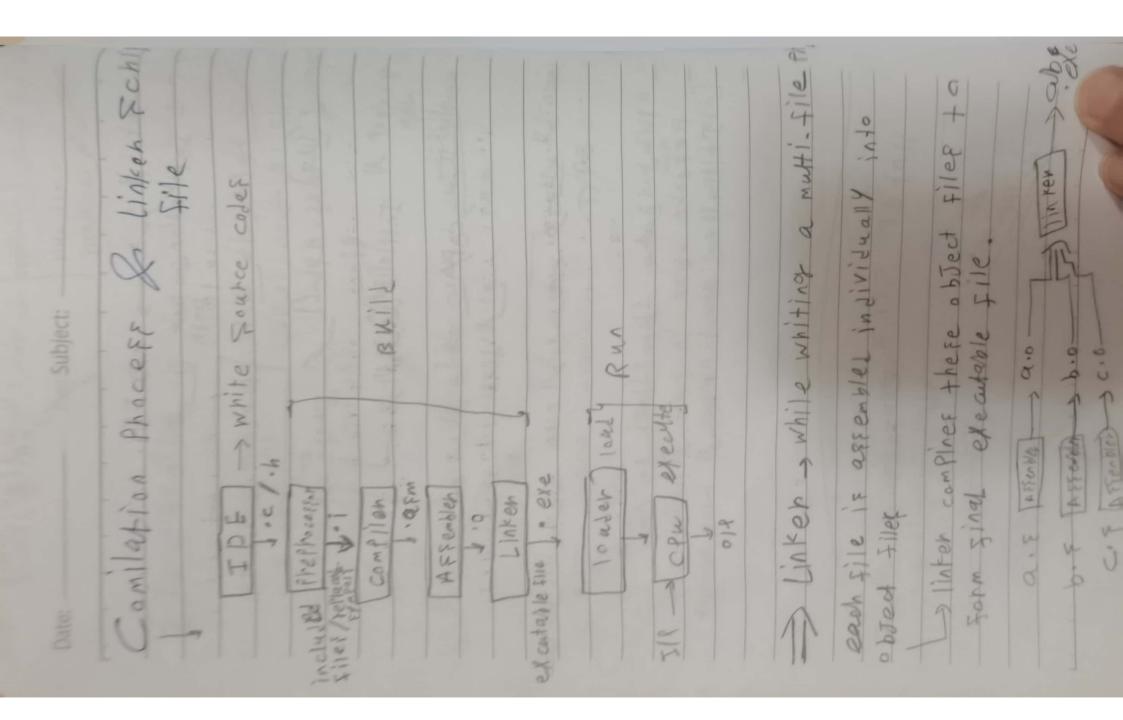
> with Ahrays > with sthucture Pointer Pointens' > Addhers of memory Location meaning ? > each variable you define allocates Location in memory int a = lo; * We can access Value to by using > variable Name -> Addhers 80f vaniable that used & to hold this Addhers -> Point en Pth (Vegos)

Pointen to Struct Typedes Struct Point int x; inty; y * P ; (*P) · X (>> P-7X * Function Pointers / La function is n't a variable but it's Possible to define Pointens to function -> Paff function de si si ja in l'ile as an absument to other functions Annay of function: es functional de l'éles = double (* Pf) (double sin); > Pfis a Pointeh int (*Pf) (chah) int of (chah) > fix a function Painter toin

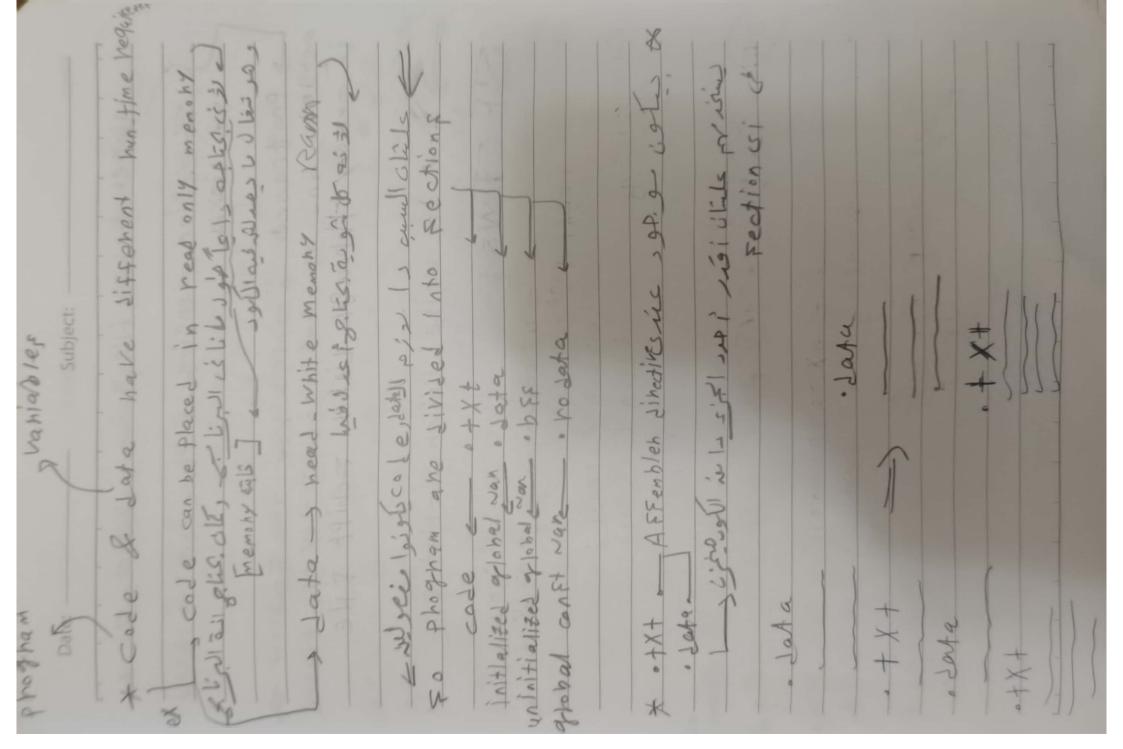
Painten to Pointen > int X=10 int *pth = &x. in+ ** P+ n2 = & P+n CONFT int * Pth Lipth is a Binten to constan integer int * Const Pth => Pth is a constant pointeniategen to integen CAhnays -> Vaniable stoke multifle vahlables Parking Ahhay to function vald X (int * faram) evoid 1 (int paramelo]) . vold X (int Papam []) refult = X (age) name of array 0014

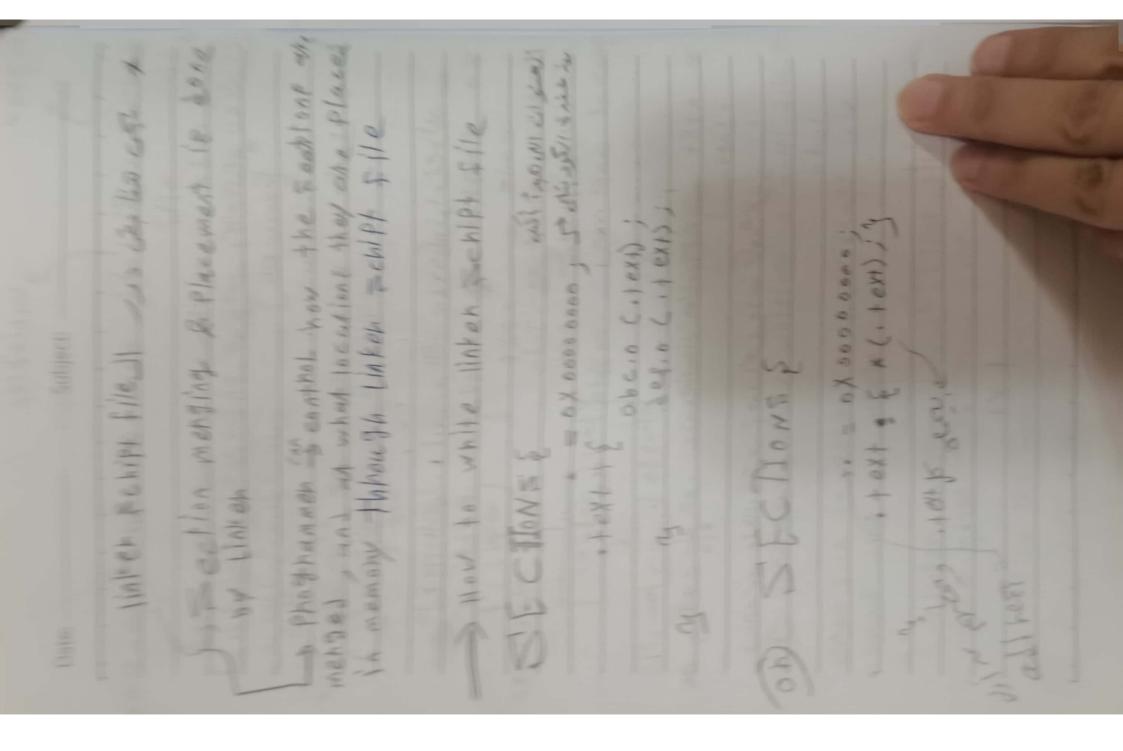
I am to cofy ahray to another Louging Struct Fthuck My Struct & int num []; 4; Struct my Struct Struct 1 = & & 123333 Sthuct 2 - Sthuct 1





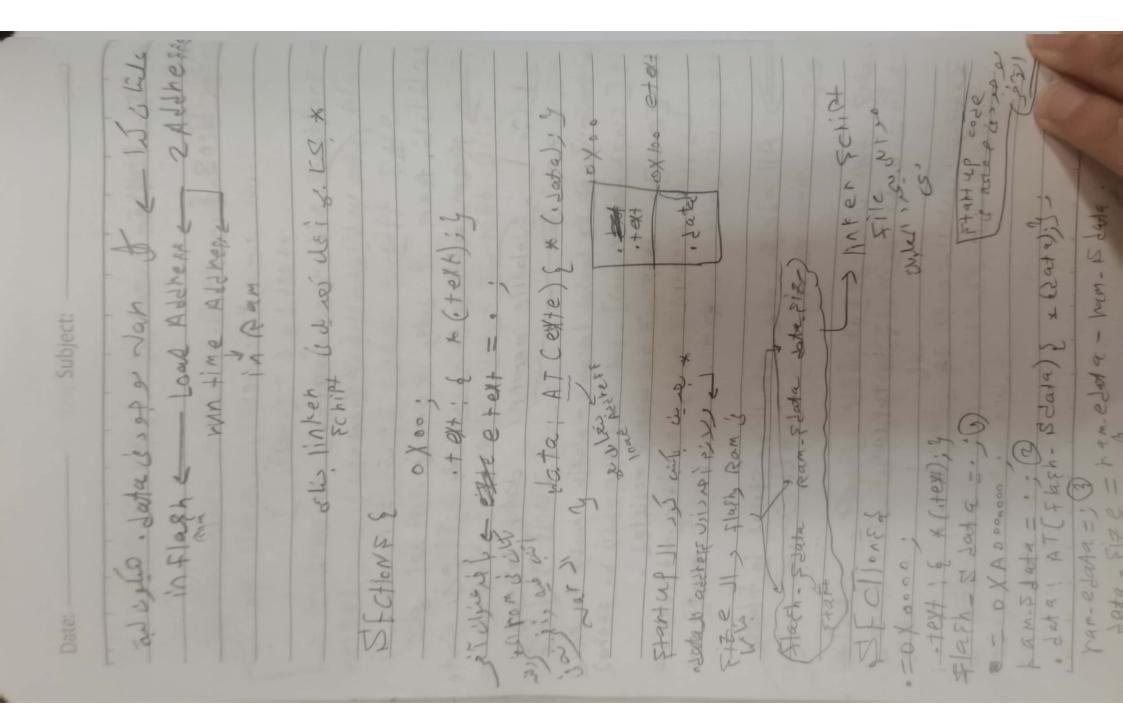








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Subject Take up Code Subject 18 execute Code while pick is the post of a significant of the party of the pick is the pick of the pick is the pick is the pick of the pick is the pick of the pick of the pick is the pick of the pick o
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