טיים וויי 04/09/2024 CHI. Mag: Reddy Programming (lest -1 Array insertion, deletion #include Lstdio.h> Void insert element (exertint arrell int n, lint pos, int value) & -for ("int i=n; >> pos; :-- > resolite = shulanilla arr[i] = arr[i-1] 201 xar salif ut Fruct stack? THE ONY [PHANE] Void delete Element (int ass[], int n, int Pos) & for ("nt i= pas; i<n-1; i++)? artije der Citépuete) of il adini bive 11- = gui (at Jahre ht is fel! (staut stack 3) & int maines { int arr[10] = {1,2,3,4,5,3; got 2 mutes Output! int n=5insext climent (ass, n, 2, 99); tour Array afterim sextion: 3 ((2 4) Maisi) - 11 2 99 \$ 45 カサナ Printf ("Array of insertion!) Array after deletion! for (int 1=0; ich; 1+4) & HENTER Printfor (2016d" [(art[G]))) 1-+] rep. (6") Panif ("old Tushed to stack (n) )/A/12.); Print+ ("\n"); delete element (ass, n, 3); 196 39 19 10 Printf ("Array of deletion ); Dellation -for (int 19=0) 12h; 3144) & the

Printf(" %d", arr[i]); modelets misessin poort. return 0; 11 include & Stalic. Hs 2. Stack asing Array implementation and startion #include = stdio. h > \_\_ : 2007 = i : a = i doi doi ) of . # define MAX 100 [1-1] 800 - [1] (6) Struct stacks ing destre (ment (me and 1 ment) subsisted int arr [MAX]; for (int. ? -100); con-1; 3-100. void initialite ( struct ; stack \* s) Elicas (+3) top= -1; int maines i intisfull (struct stack s) & seturn S.top==MAX =1, 1 3 4 [out] 8 mm dai outrut: 5 Word push Cstruct: stack ts ", intervalue) of 3 deser : [ (isFull (\* 5)) & of de of Print & Co Stack Querflow in ")/1-1,39 return ? (FFI; (FFI; (FFI) 20) (+6). ar[++ ((+(5): top)] = walne ; sin 8 Point (" old Pushed to stack in " Walve); Point + (" ("); return -1; int pop Cstruct Stack s) from 1 = oto | sio if ("sempty (ot s)) Ela poser (") Home? Print+ () stack under flowing) seturn -1)

2 00 signan (+5). ars (+5). toporti): 3 Int peck (struct stack s) & KAP. INTHE Print ( stack is empty ( ) in de die 2 an of retaining to ward Zertym S. ar Es. top Junion 11/11/10 void display struct stack (5) { rost = 1 if Cis Empty(s)) { Point + ( Stack & Compty ( n') & setusin the stack is compty (n') - for (int ]= 8. top 13 > 1200 21 15950 21 Print Charge & Struct Confession In it (is empty (9)) { (9) } stract of stack so, " many" ) this? Gaitiality (25); Push (&S,10); in 3 plac 2 Push (25,20) 7 2modi = g= pulati Push (25, 50); Print of Chopelinust is led los pect (D) Point of Chement in stack !! display(s); Output! ( Mison to. Seturn 0; 10 Pushed wto stack 200 Rished to stack 30. Pushed to stack 30 POPPED - From "Stack Top element is 20 Stack clements: ((2.2) 24 84 pob ("1/ba/" b200000

# include = stdio.hs. ( butput: Inserted , lo ansexted 40 30 at define MAX S Struct Queve { : ( Emsested : 50 int items [MAX]; Queue elements: 10 20 30 40 50 int stem s[mAx]; Domoved! 10 Removed: 20 int front, rear; Queuc elements: 30 40 50 void mitialite Buenc (Struct Duene 2) 2 a -> sear = (p) donte. tours polquilo bion 2 -> front = -1; ant is full (struct Queue 2) & Just seturn 9 - sears== MAX Tolitos int is Empty Cotract Queue \* 2) E. - In rot return of -> front == 15 int dequeue (Struct Bueue +2) & ent volue; it (is Empty (2)) & is ( Spinor this Printf ("Queue is Sonty (ni) Schusn -1. 18 5 HEAR 3 else q value = 2 -> Flems [2 - Foor F) Pully (25, 30) 2 -> front ++; (6) 3/11 (9) - fron 1-59 seas) & tris y return value: ant maine) ( fight Seturn 0; Struct Buence 201 in tialite Queue (+2), ingenqueue (29, 10) 10 en queue (5 21,20), enquene (et 2,30); Chisplay (42) Printt ("Pemo ved: 10d/n", deque uc (202);