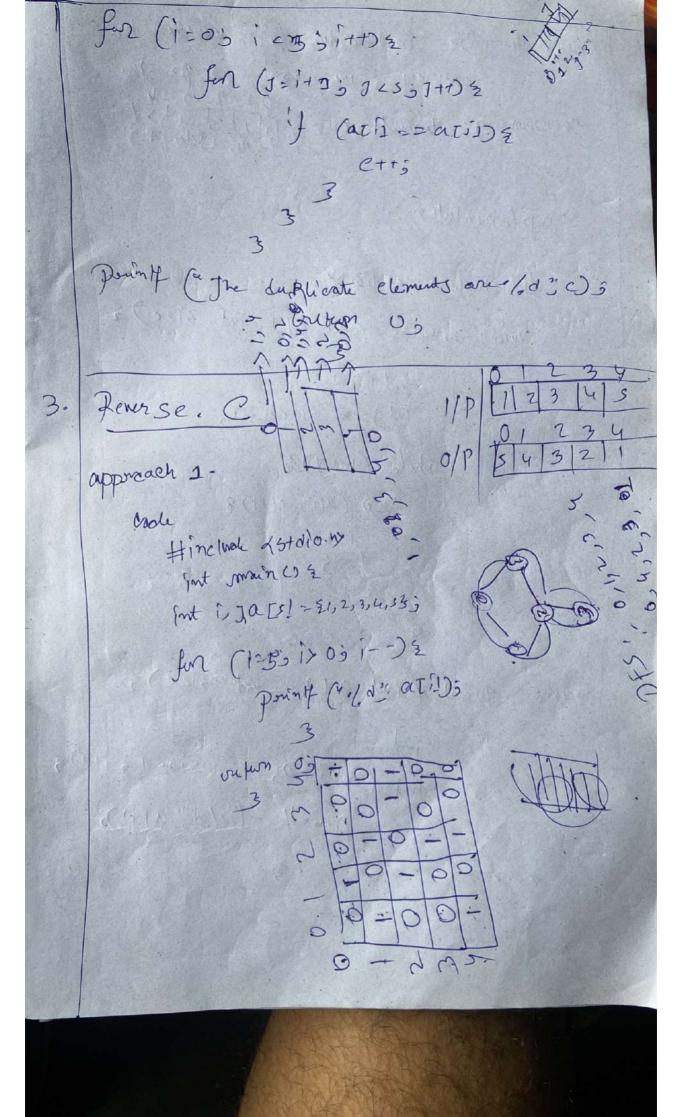


Point (" ket of d was been found ? if (pesu+ ! = -1) { print ("1), d key y peswit) 3 llse print (4 Not found D's void pennse (int a[], int size, nkey int 1= 03 int j= 3/2e-13 for (1-05/12=512e-15/1+1){2 if (ati) == key) & orition is oreturn -1; 2) Duplicate : C: Coole # include 15+dilo: 45 jut main () & int a [5] - \\ 2, 3, 1, 233 [mt c=03 inti, J;



1) apperach 2:- In order to viewese to coorsponding elements ex: - 1/12/3/4/3/ Implementation; Hinchush Lstdio. W void neurse (Int al], int size) 2 int 1=0; int 1=0; int 1=0; while (1/2=7) 2 swap (atil, atil) & 1++; J--; void point Eint all, just size) & int ! Ju ((wt 1 = 05 | 2 = 5/20-1) (+D) print ("1,d" asis)

just main () { Int no Porint (Enten the number/size 2); Sang (1/d / 2n); put orns numse (a, n); printe (a, n); ontum 03 4/2 Sweep alternatives. C Awalegy: Swap for as courspounding element in an way army. if it was dome #include & stato. w suppling the void sump (fut all), fort stile) & 2,1 (Herment for (int 1=0) 12 5 (2e) i+=2
for (int 1=0) 12 5 (2e) i+=2 1+22/12/+2 if (alitalousize) 3 # jut t = alij; atij = atit1); alita - ti

void paint (Int all, Int size) { for (inticos icsizes itt) à Print (11/2 atil); (13 14 1) jut main () & Int a[5] = {1,2,3,4,33 } Swap (a, 5); print (a,5); netur 05 5) Suap fu alternative of an von increasing average # 5 3-254

include 2 st dio, ho void sont (int a, int size) & for (Int 1:03 12=512e-131+02 for (int j=1+13 j =517e-15 j+1) 2 lut to acis atil : ajjj ati) : to (10/1) 3 The consposit which we have the

void sweep (Int *a, Int size) 3 for (fint 1=03 125/2e 3 1=1+2) 3 if (ali+1) L stre) { int to acros alis = ali+225 a[i+1] 2 ts 3

void point (int +a, int size) & for (int 1= 0; 12 = 5/2e-19 1+Dz print ("/d" a [12)3 3000 3000 10000 Jut main cos [ut a[6] = \$6, 5, 4, 3, 2, -13; int size: streat (a) / size of (atol); Sant (a, size); 11 for santed wry Swap (as size); 11 for swysping from pointy (as size); u far pointly virtum 03 Find @ pairs in an armay using linear Search enample: 01 23 45 11/2/2/5/6 xi que Ju Divir is one - (u+5) 29

#meluale x st do - mx int main () & Int a[5] = {1,2,3,4,55 int. size == size of (a)/ size (a [o]); ist 1, 7; 2003 fut no point f (4 Enter to n 3)3 Scarle (4-1-27 27); for (1203 12312e 3 1+02 Print ("1,dit 3 atis)s 3 Don't ("In ")3 int c= 0: for (1=05 [25/2e à 1+1) & for (j= i+23] 2 sf ze 3 J++3 & If (atil + atil == 20) & ett; 3 3 print (Ju pain af .), d & " (); between 03

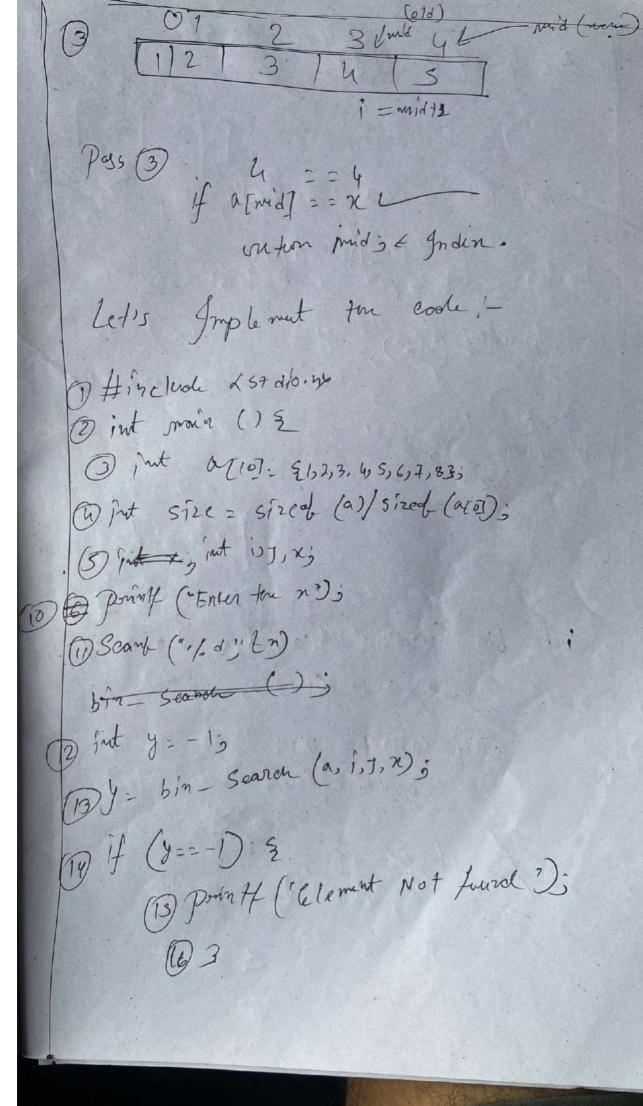
7) Find the Joseph any Clements in the arming emanysh 01234567 n-690x(210) Code! + include & stoio no fut main () & jut ann [10] 2 21,2, 3,4,5,6,7,8,9 fut size = Sizeal (ans.) / Sizeal (anx 10) int 1, 2, 435 for (120; 125, 20; 141) 2 Parint ("1,d(t) acis); Ponnt (1/n ") 3 Print (" Enten the re for Line" feipled) Scary (1.1.3" En)3

fut c=03 for (1=03 izsize ; si+f) { for () = 9+2 3 [25/2 3 7++) 2 for (K= J+1; K2512e; K++){. (atil+atil==n) = 3 13 Don'nH- (" In templets are old" (3) ortun 03 3 (10) So find for Speitic element (n) and 2 Sum the inden at that element # fine lude & st dio, my a fint mein () & (3) Int atio] = \$1,2,3,4,5,6,7,8,9,103; (4) just 5/2e - 5/2euf (a) / 5/2e a/ (a To)3 3 int as print ("anser tu n') 3 @Searle ("/,d") En)3

Ofor (int 1=0's icsize; i+DE o print C./dt 3 atizzs @ Seated Put tut = Genreh (as size n); @ if (+ot!=-1) { @ Print (".1,d" tot); 19 Part sum = 0; Parint ("Not found of; 13 fmi (1203 12) size ; (1+1) q (2) print (1. d Ju Sun Is 3 Sum) 3 Dint search (93 + a, int size, int wed) 2 2) Part 13 @for (1203 jesize à 177) 4 2) if (at,i) == >0 %

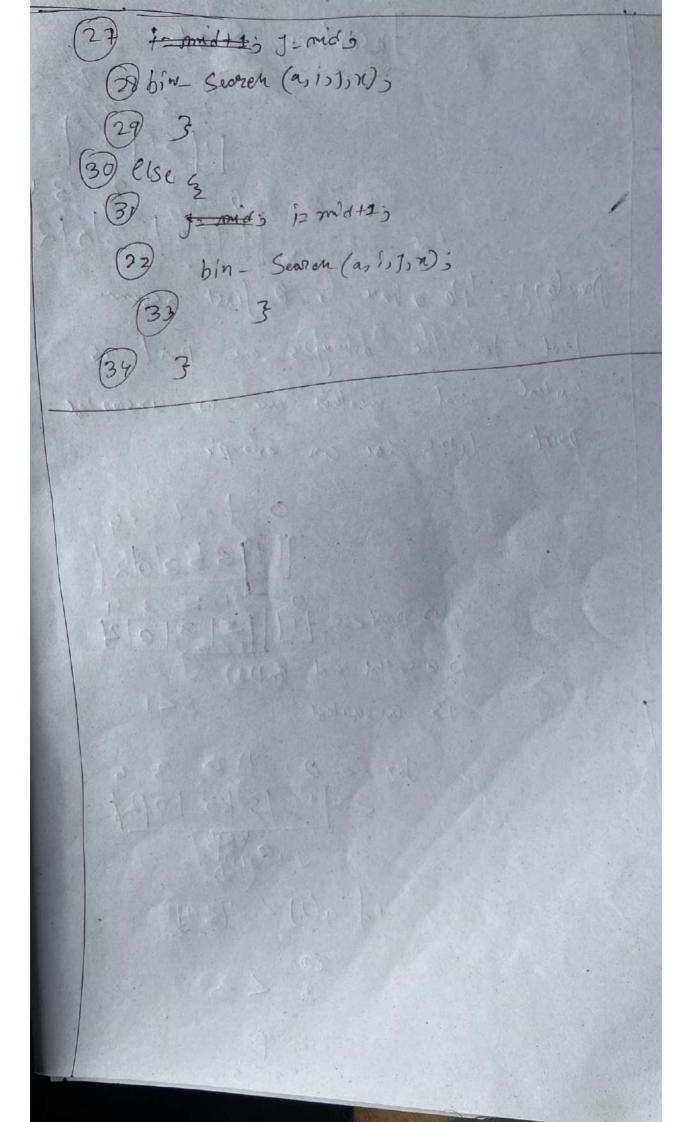
Scare In this South technique le livide an avincy jute fao Phosses and find a mid point if The Season orequired element is righ 9. reater toan the mind index we go right else we fravense left if the Climent gets found are simply return The inden else une outone the - 2 + Serited 1/2/3/4/5 678/9/ 0 1 20 231, mid / 5 6 7 8 11/2/3/4/5/6/7/8/9 0+9= 9= 4 The formula is Esteral tend

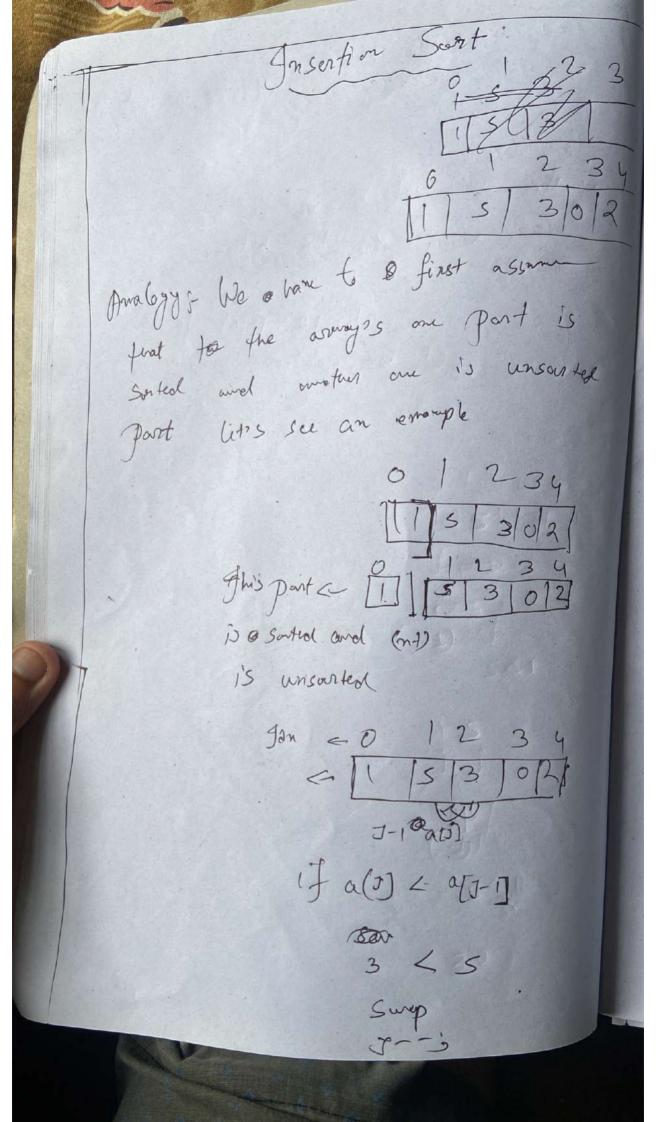
13x Inplement a coole where we find a ferm an santed army usby Brany Search & Algarithm. 0 01 2 mid 4 n [1] 2 1 2 1 4 1 5 7 0+42 222 Pass () if a [mid] = = 2 X else if a trady & n 2 × 4 × the acmid] In 2440 · 12 mid+1 2 fan (); 2 1 mid
2 ty: 63 [12] 3 4 1 s 1344 Poss (2) asmid] == 1/2 × Famil 1=mid+1 fun (); a [mid] & n



Clse print (127 1)3 6 for (1=03/c3/2e j (4+) 2 Di Point (1/1) at D; (9) prointf ("In"); 1) outum 0; (10) just bin- Searcen (fast a, int is int y, int n) & (20) fut mid = (it])/23 @)if (atmid] == x) { 23 viturn mids (23) 1/ (1=-D) { 29 else if (atmost on) &

mit bin-Search (int a, int is int g, int n) (20) fut mid = (i+1)/25 (2) if (atmid] = = 20) & (22) ortfurn mid5 23 if (1==1) &
29 vertoon -1;
25 3
29 else if (ortmost > n) &





Condition 24 If alise ali-1 Sump ; J--5 2 if J/0 on J 400 421 Trames Traverse for Cup unless Jyo ar Jy21 01234 115/3/0/2 give a condition which a a [1-1] is if (3>=1) if als is at & 3'th let the bup run Index and 0175-17 to'll J gets I am O is at o insen and not 1 ar -2 the still time and the emoither 3 25 and if the Jose if (1721 to 0[1] (0[0-1]) = 9ets = -- and abter or the - inden if the Smap ? 1-- , nobben the comp will nem be broken 50 me mare प

2 Schtion P (2) (orbina) myahlire) #include 25+ dio hs void sort (int ra, int size) & int is si ked 3 In (121) [15[2e] [19] 2 voj: atil J= 1-13 while (1>:022 0x21 x xet) { a[it] = tell orijj atiti) = vejo

void Point (int a, int size) & int in for (iz os iz sizes it +) q Doint (9-/2/+ 3 acis); jut main () 3 jut acco] = {10, 9, 8, 7, 6, 5, 4, 3, 2, 13; înt size = size de (a) / size de (aroj) sort (a, 10); print (a,10);

Selection Sort (almoy position # In Clude & st do n's and silect) void surp (ton but on intob) fut temp = * as t a i + 65

b 2 temps algo (1) void sout (int +a, int size) 2 int is 3 5 for (1=0) susses states Ø for (321+23) 155,200) 1++) 2 if Cacion actions sump (2 alis 2 a tis);

void Sort (int on Int size) & int is so minders for (1203 ics 12e à 1++) q miden = 1; for (j=1+2 ; Jeshe; j+02 if (atoil 2 catimin dent) q minden = J; Suap (¿ acií, 2 acminden) Void point (Int alls int size) q int 1; fn (1203 1/28/20 3 5++) 92 Bonnt (1/9/4) Hund

fut main () 3 [mt a[] = 21, 2, 23, 24, 42, 45, 64, 340 - 4 3 4033 Int size: street (a)/ sizeb (al.) Somt (as size); point (assize); outure n O3 Bubble Sort . C Hime I woh 25+dio. NA TSA door. NA THINE Work 25+dib-W void swap (int * mp, int "yp) int t = + np3 enp = typs * yp = ts void surt (Inta Int 4/20) int 1, 13

int 10 13
bool supposes

for (1203 1/25/263 14+) 50 Supped - falses for (5:00 J 6 size - i-13 J+Dg if (a[v] > a[i+1]) & Supp (tati) Eati+1) 2 nopped: francis if (supposed == fulse) & void point (int all, Int streng for (120) icssze3 (++) 4 Print (1/2 1/2) Pat main (3 2 Int ap 1 = 2 les 9 -9, 900 37, 39,60 fut strek = 5/2 de (a) / struct (ato)

Sort (0, 5/20); print (as streets victor 03 enauple 10, a, 8, 70, 6,3? PO PO 9:10 8 70 65 9 9 10 70 65 98 -10 36820 P-(2) 98 10 65 20 (6) (6) (6) P-0 89 10 65 70 The big bubble / clevent sugs umless it gets to the son end and each passes we deliner the greatests Second gruntes, tenind gruntest, n generatest element to the ser enril unles it yets sarked