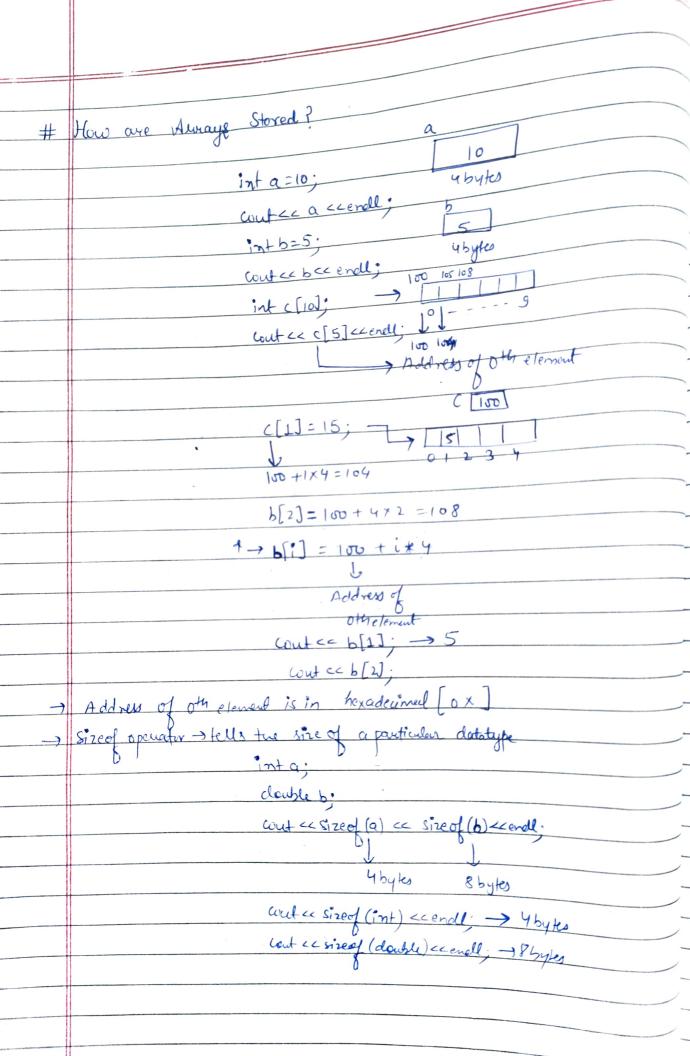
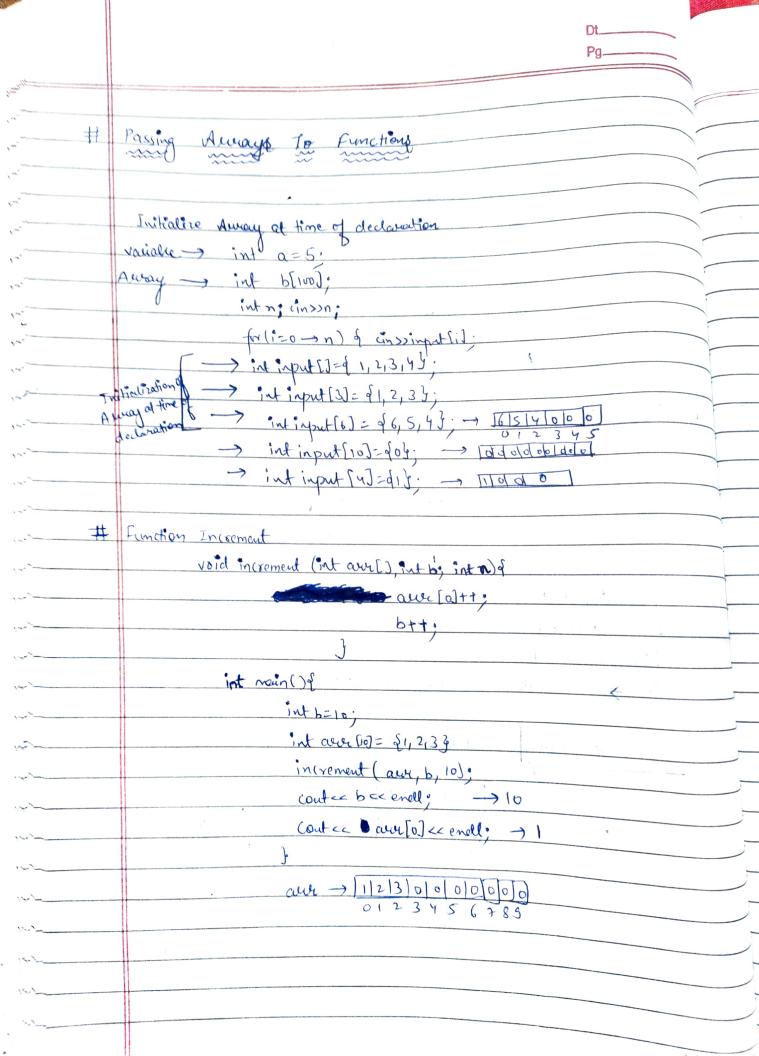
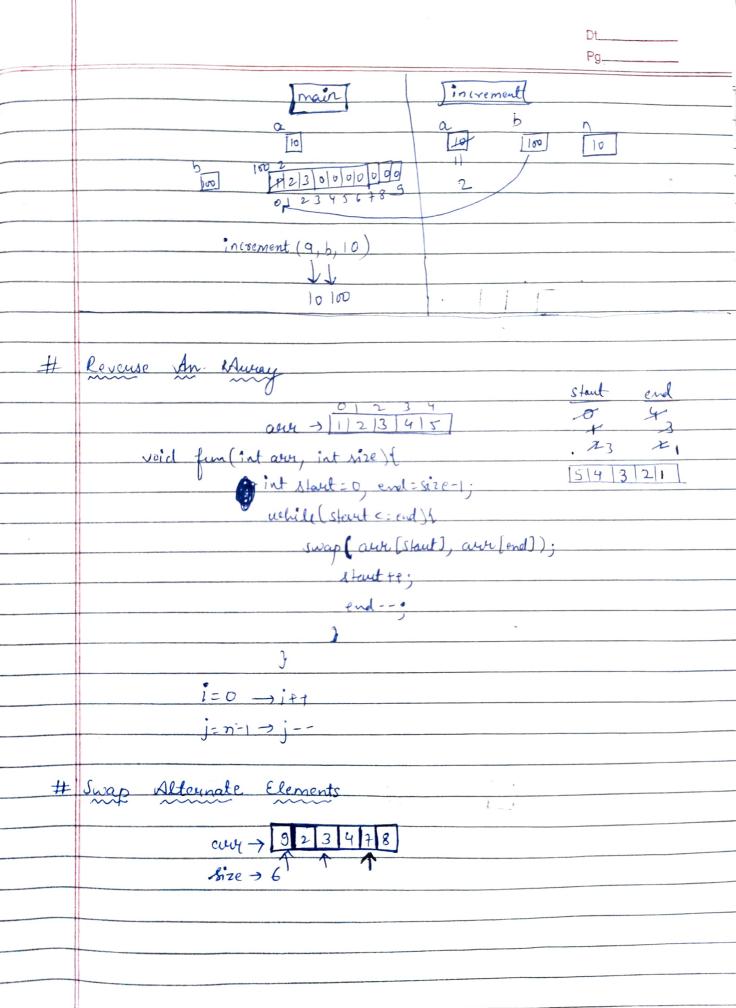
	War and the same of the same o
real of Functions	
Pany elebugging	
Neat Cocle	
Leusability	
Modulacitation	
· · · · · · · · · · · · · · · · · · ·	
Jata Sturtuet "Amays"	
2005	
We need to store to integers and in order to do that we need to exact	
Voulables & figure out the maximum element out of them which will be a tent took.	illa
tools	
A list of similion kind of elements stondat centiques locations (homogeness)	
(homogenous)	
- intaliol	
gentrage value	
a 4646s Ca 4646s Liobytes Contigueus block	
-> a = 5;	
10 1314131814 bytes	
123456789	
-> inclexing from 0 to (n-1) -> Memory block -> rondom garbage	
-> Menacy block -> random garbash	Wille
Sels.	
$\rightarrow a[index] = 5$	
(0+on-1)	
(0-9)	
int 6[10]; (0-9)	
0123 456789	
b[z]=10; b[7)=15;	
5[17-17) = 3, ×	
contee b[2] <<" " << b[3] <<" " << b[4] << end!	

		Dt	
		Pg	
	0 04 4		
-9	Double Among	louble arrivat; 780 bytes	
	U C	louble arrival; To bytes	
->	Char avery		
	0	chay aux [10]; -> 10bytes	
	7 / /	L	
	Take Away Inp	aur[50]	
		int no constant value are [40]	
		int n; aur[50] (in>>n; size > constant value avr [40] avr [10]	
	×	int avor[n]: - X avoiding variable rize away int avor[n]: - X avoiding variable rize away int avor[no]: - X avoiding variable rize away for (int i=0: i <n; (in="" i+t)?="">> avor[i]: } any > 10 15 1920 1 23 4</n;>	
	~	int arrivod: - harry of lot of space ; inter	
		for (int i=0: i < n: itt)?	
	Imple and	(in >> aversize due > 10/15/1920 1 23 4 35	
	0	J.	
		index of $[0] \cdot \rightarrow (0]$	
		element (in>) cover[i]; -> 15	
		[10]12 15 16 (1/1>) avon[n]; -> 16	
		012345678-99 cin>aur[3]; ->20	
			_
		for (inti=0;i <m;i+t) d<="" th=""><th></th></m;i+t)>	
		L contex aereli]; }	
		in Asway 105 15 17 3 n=5 whitten in climits	
#	Laugest Elemen	of in Agricu	
1)	Laugest Elemen	in 4 -> (10/5/15/17/3) n=5 whitten	
		0 2 3 9	0
		max = 107 Approach - 2 7	
	Approach	-1 int wax = curtoJ; Put max = INI'M	IN
		for(int i= 0; i <n; i+1)?<="" th=""><th></th></n;>	
	m=5	if (aveli) > max) {	
a	or - 10/12/13/14/16/11/	max=ars[i];}	
	01234 99	}	
	nax i	Cout << max exerall;	
16-13	12+10 1234		
	m=0		
		1/1/63/1/1	75 Cr
	H	1/1/6/1///	



		Dt
		Pg
		er e
#	Acroays and Functions	size of (b) -> 8 bytes > pointer variable
	int main() d int b[5]: [1] [] fun (b): 1	voich fun (int b[]) { for (int i=0; i < size; itt) { cont << bill conde; }
	7	·
#	Linear Search (- Technique ou algorithmy in the array. (onsider an away and a key arr > 12 3 8 9	to search the position of an closed value of 9 in the away
	Complexity > Time > O(n) - worst lase element (tauget) with each and every ele finel the element. Space > O(1) -) As no need of an auxilia	ment of the array in order to
#	Populate the acrossy 1 to N 1 to 4 [1] 3 4 2 int val = 1	1+05 1 3 5 4 2 0 1 2 3 4 Haut = 0 + 7
		end = 432 val = 12345





	Pg
War.	
pri de la companya de	Assignment Questions
PAN PARTE STATE ST	
part and	
- 4	Find Unique Element
/m	
/~* -	$avr[] \rightarrow [2 3 1 6 3 6 2]$, $inze=7$
/ Ann	0 1 2 3 4 5 6 for(inti=0:icn:itt) f
Vanin -	for (inti=o; icm; i+r) of int canded, for (inti=o; icm; j+r) of int canded, [auxli] == auxlij]
Van L	0 0-6 1 County;
No.	1 21-6
/~>	2 2-6 1 if (count == 1) of 2 2-6 1 cout \(\alpha\) aver [i] \(\alpha\) evol!
year -	3 3-6 1 3
year -	4 4-61 1
Van	
Van'-	for (int i= 0; i <size; i+1)="" th="" {<=""></size;>
/ ₂ ~~	int count=0;
(m)_	tralintis Director in 21
Solution	for(intj=0; jesize; j+1) l
Time O(n)	if (avrli] == arr[j]) counter; }
Time Confloring	if (cont==1) cont << asrli] exendl.
worsh	
#3	Sout the array and we get the consecutive denset
	Sout the acrony and we get the consecutive elements together
~~`_	1/2/2/3/3/6/6) -> O(nlogn)
	A A A A A A A C (Neogn)
#*	XOR all clearts is a
~~~	XOR all elevents with o use set origine element.
~~~	VAT W = C
~~~ <u>~</u>	ans = our [i];
~~ <u>~</u>	0 1 1 2 1 2 1 3 1 3 1 6 16 Contec and exemple;
N	31
**** <u> </u>	
- 11	

1 1

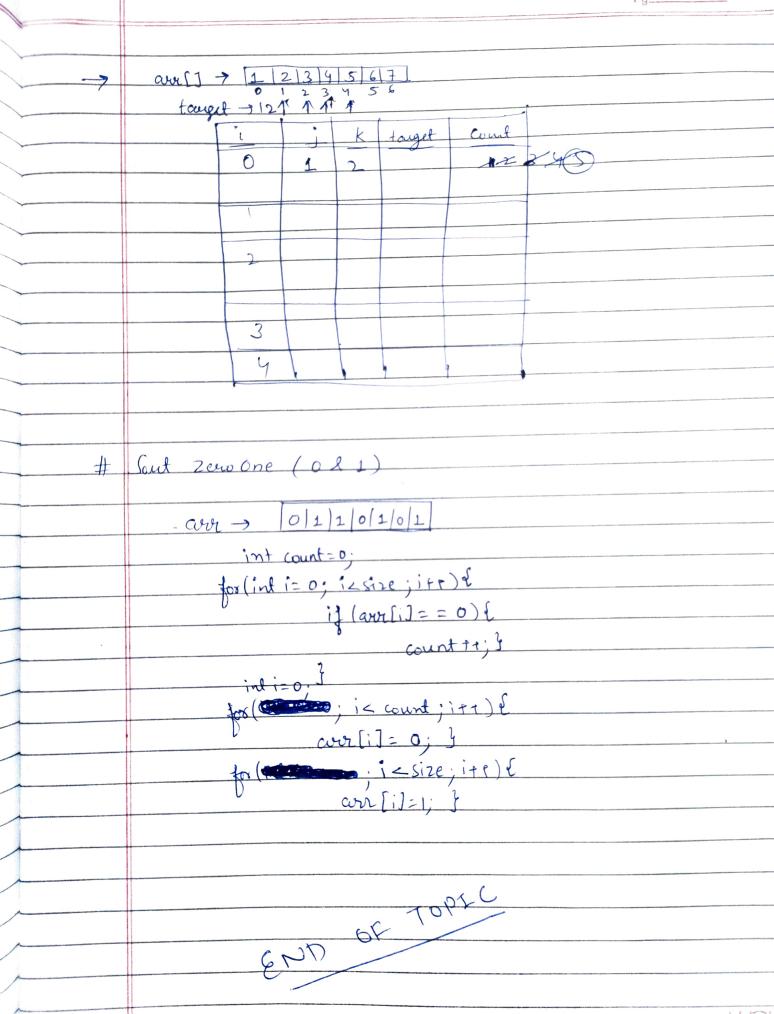
	Pg
# 9\	Find Qualitate Element -
7.4	Find Duplicate Element -
	054 > 072547136
	acor > 072547136
	\$
	for (inti=0; i=n; i+t) of int count=0;
	[ - ( : 1 :
	· · · · · · · · · · · · · · · · · · ·
	count tt: 3
	country. 3
	ζ
	if (court==2) everturn arr[i];
	ichin -1;
	3
	Time Complexity -> O(n2) -> n is the size of the away
	THE CONTRACTOR OF THE CONTRACT
(2)#	Using XOR operation
-	Using XOR operation (0107213141516) (011213141516)
0(2)	6 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1
(2)	Aug Sun + = arr[i]
	Afulson = (n-1) + (n-2) /2; m=6 5+4
	1 = 320
	Ang Sun - Actual Sun = Duplicate Nuber 26 =X10
	15 L C 10 (16) 00 900
#	Example - [1 5 2 8 9 1] = 26 5+4=10 (544)
	o sum - 3
	5 - /- 6 /b /b
	2 26

MOMI

	DI
Approach-3; Sure of away by sine = aver[:]	
Sun from 0 to size-2, S=((size-2))*(size-1))/2;	
gretum sum-s;	
sum = 7	
S= 473  2 = 12 2 = 6	
uctur (7-6); =) 1	
Tolonge for of Tons August	i
Intersection of Two Arrays  J.J. J.J	
avril $J = \{2,6,8,5,4,3,4\}$ avril $J = \{2,3,4,7,4\}$	
12.3 (1)	
Intersection of two arrays = \$2,3,4,5,6,8}  Sorting arrays > \$2,3,4,5,6,8}  -> \$2,3,4,7}	
1=0 j=0	
(avez)	
while (i< size   & & j c size 2) {  if (arx[i] = avr2[j]) {	
elx if (awz[j] < arx [[i]) {	
jt1; }	
else {  contexaror2[j];	
) (11) ] (11)	

# Pain int count=0; hetun count; # aux > 1 3 6 2 5 4 3 2 4 0 1 2 3 4 5 6 7 8 tauget > 7 count tauget X 3-8 0 int cnt=0; Triblet Sime  $for(i=0\rightarrow n)$ fos (j= 0 i+1 → n) {  $for(k=j+1\rightarrow n)$ if (avoili)+avoili)+our[k] == +auget)f Count 11; 3333 return cout; 3

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