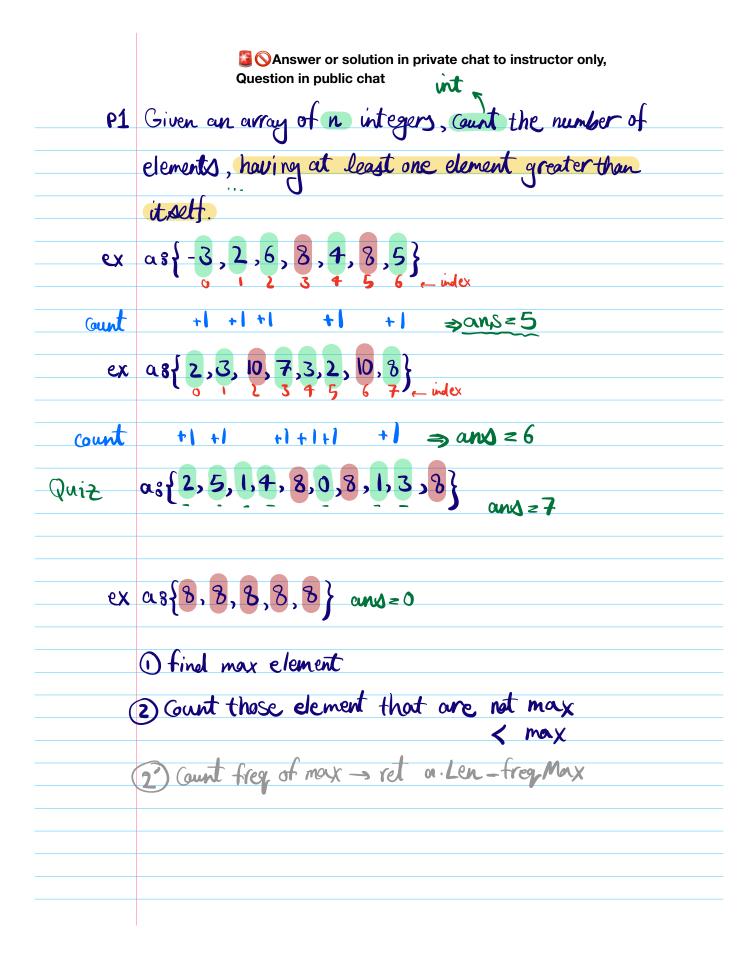
7:05AM	Topics - arrays intro				
	- P1# of elowerts now extlem				
005	200+ adung Problem break _P2_a[i]+a[j]=k				
9 **	10 min _ P3 reverse array				
	30 min _p4 reverse array partial				
	_P5 rotate array k times				
	Array so a collection of data sequential in memory int a[10] ati ati 1000+4 x i = 1016				
ex	int a[10] $a[i]$ $a+i$ $1000+4\times i = 1016$				
1000	int int				
O based	0 1 2 3 4 5 6 7 8 9 = index				
Quiz	rang of index for array size n [0, n-1]				
Quiz	accessing any element in array is O(1)				
	How to print an array?				
	void printArr (int a[])f				
Quiz	nza.Len				
TC80(n)	for(1=0,1 <n,1++){< th=""></n,1++){<>				
SC80(1)	print(a[i])				
×					
	}				
	')				



```
Psudo Cade
             int count Max (int arr []) {
Quiz
                nzarr. Len
                maxE = a[0] IN for(i=0; i< n; i++)
                                   INT MIN
TC80(N)
S30(1)
                  if ( arr[i]>maxE){
maxE = arr[i]
                                            O(n)
        Step 1
                                                      O(N+N) = O(5N)
                Court 20
                                          0(n)
                for (1=0; 1<n, 1++)/
                   if (arr[i]! = maxE) count +=1
        step2
                ret Count
```

idea 1

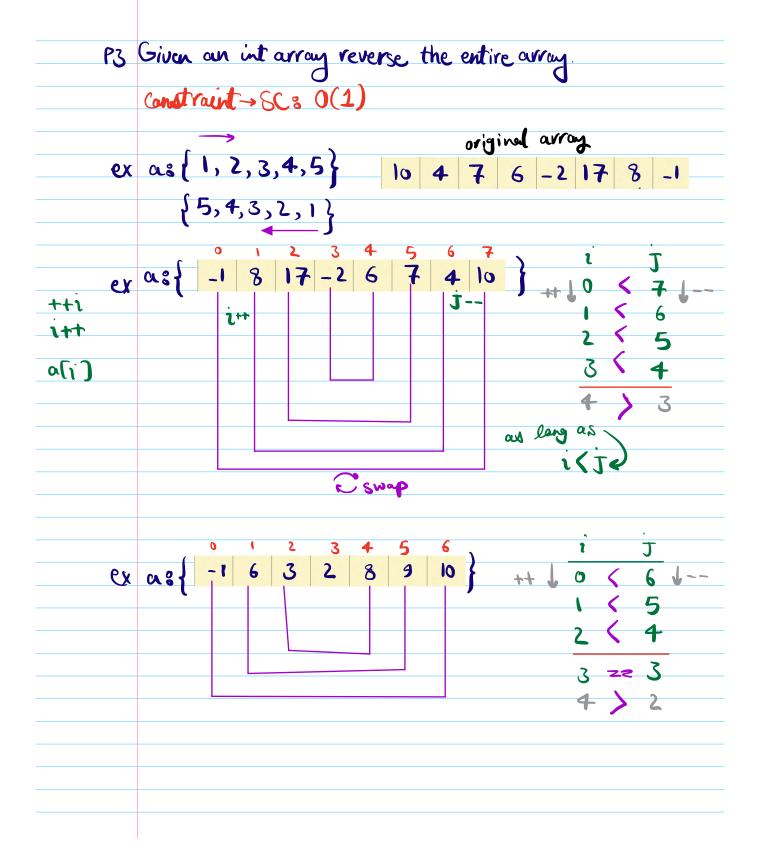
1 dea 1		
	bool check Pair 1 (int a[), k)	
Quiz	nza Len	0,0 0,1 0,2 0,3 0,4
	for (i=0;i(n;i++)}	1,0 1,1 1,2 1,3 1,4
$TC80(N^2)$	for (720, J <n, j++)}<="" th=""><th></th></n,>	
8CiO(1)		
	II (C. Jak att. [J]	3,0 3,1 3,2 3,3 3,4
	ret true	4,0 4,1 4,2 4,3 4,4
	20[5]+0[1]	
	20(7) + (1)	
	ret false	
) ret rause	
	}	

optimized 7 idea 2 book Quiz not needed any more

	bool check Pour 2 (int a[), k){	i	j	itr
	nza.Len icj-upper	0	[1,1-1]	n-I
	for (1=0;1(n-1;1++){ triangle	1	[2,n-1]	N-2+
		2	[3, n-1]	n-3
	for (] = 1+1; J < n; J++){	•		•
4	if(i = Jkk a[i]+a[j]==k){ ret true	•	•	
	ret true			
,	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1-2	(n-24, n-1)	T
	', '		N-1	
	3 1		l	
	ret false # iters			
	8=1+2+3	5+ · · ·	+11-1	
				(N-1) N
	∧ (N+1) ≥	(n-1)	((n-1)+1) z	(11-1) 11
	8= Nan-1		2	
	- <u>L</u>			
	1+2+3+ ··+N (n-1)n = n2		Q	uiz ans
			•	-

OL	h		1
			b
3	5	5	
	3	3 5	3 5 5

 $=0(N^2)$ & TC



Psudo cade	void reverse Array (int el[])
_	n=a.Len
Quiz	
0(n)←TC	i=0 $j=n-1$ $j=0$ $j=$
0(1)←SC	
	a(i) = a(j)
	a[j] = temp
) j++
]

