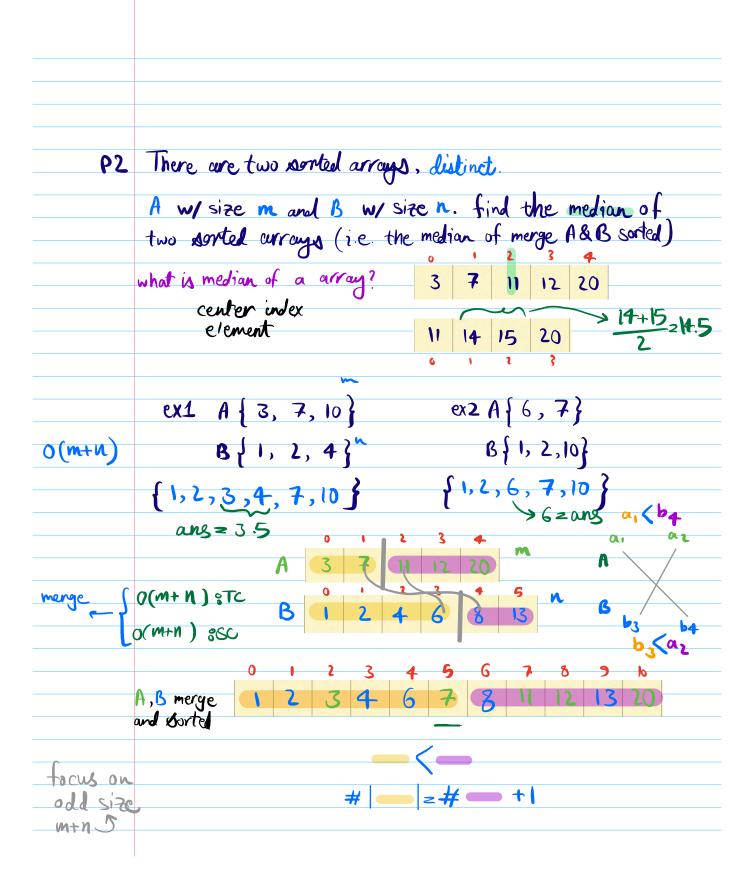
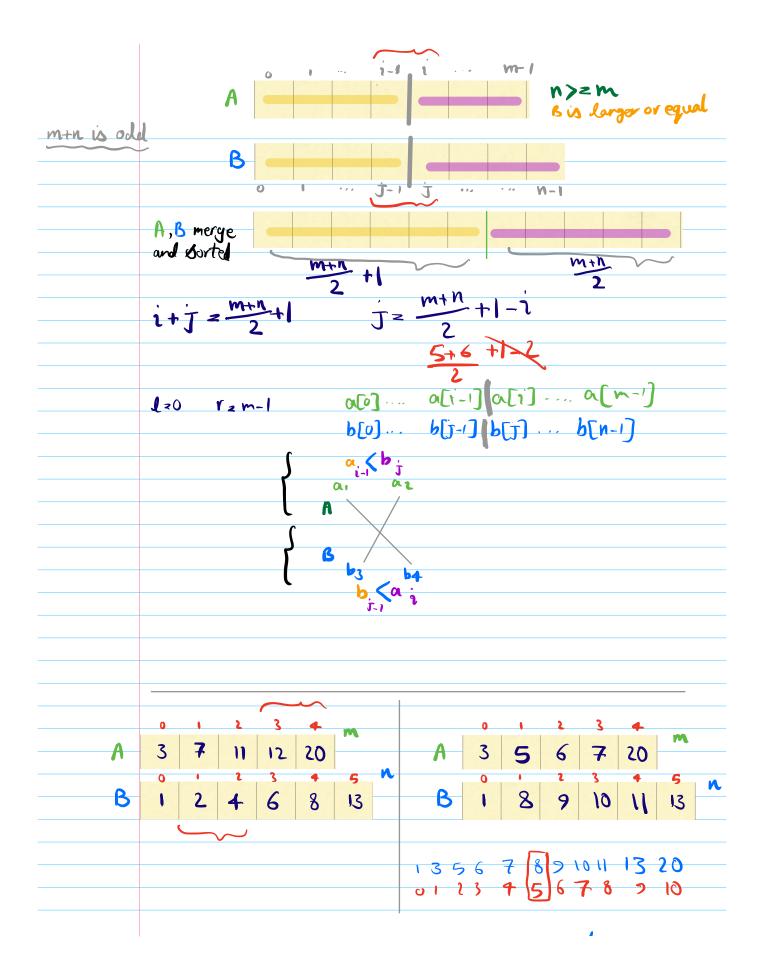
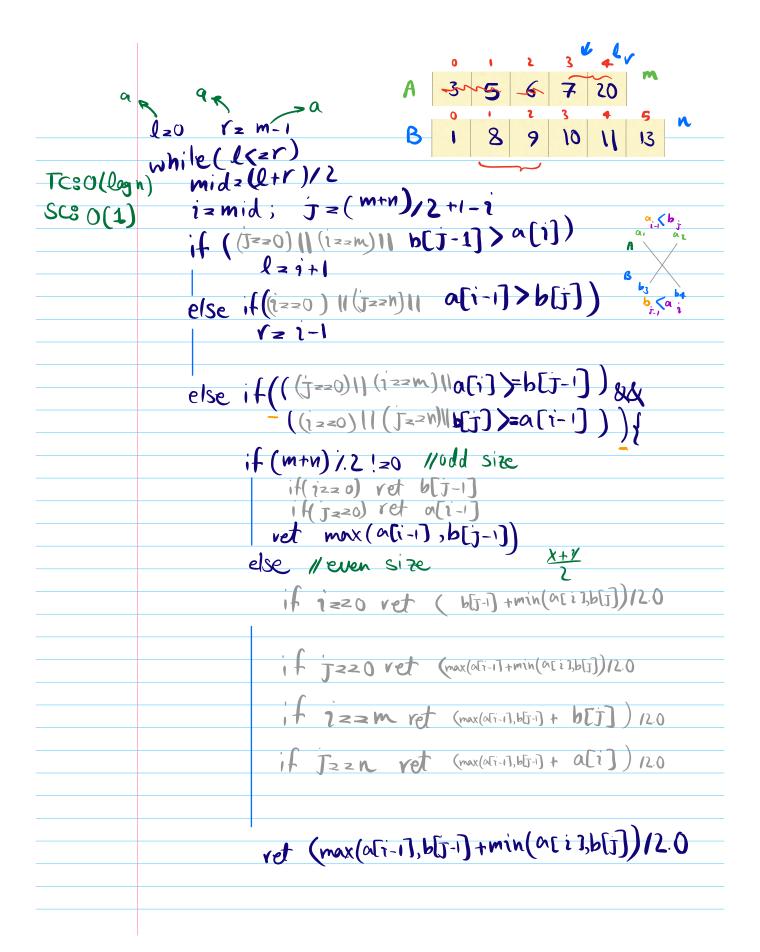


	odae cheek this with
Solution 1	Find largest element a short circuite assignment
Psudo cade	L=0 v=n-1 find index of largest while (L<= r) { & a gamid-i} element. this is not mid-(L+r)/2 the final tunget
P 3 WOU COLE	while (l<=r) { & d (mid) element this is not mid=(l+r)/2 the final tunget.
	mid2(ltr)/2 if(a[mid)>a[mid+1]) ret mid the final tunget.
	if(a[mid] <a[0]) (zmid-1="" 15="" 17<="" th=""></a[0])>
	else l=mid+)
	if (target <a[0]) -=""> target is in veel part</a[0])>
	bin Search in red part
Tro O (lag(n)	else - torget is in green part bin Search in greenpart
SC 8 0(1)	With 2 car C
	example (2 3 4 5 6 7 8
Solution 2	
	1=0 r=n-1 25 0? = taget
	while (l<=r)
	mid 2 (1+r)/2
	if (a[mid]==target) ret mid
TC:0(log(30,300)
Sc:0(1)	if (a[mid]) > za[o]) Lzmid+1
	elses; f(a[mid] <target) &="mid" +)<="" th=""></target)>
	, else r=mid-1
	f else
	if (a[mid) (a[o]) 12 mid-1
	elselif (a[mid] (tanget) l = mid +)
	, else ramid-1
	· J







		f/ ∞	~					
P3	Find	Square	, root of an	int without	biult-in func	ctions.		
					don't use mod	th . Sqrt()		
	n=10		3 < 10 < 4		Sqrt	()		
	n = 30		5730<62					
	n=49		7849 < 82	ans 27				
		1521	N		5×5<0	626>10		
	forci	- Ø; i <n< td=""><td>:1++){</td><td></td><td>307 (10</td><td>044>(0</td></n<>	:1++){		307 (10	044>(0		
TC80(TV	T' ·		zzn) ret	i				
			>n) ret 1					
	}	ודענגון	/n) vec	, - (
				n				
		150	n < 10	100				
	N = 10	, v	Kn	awn _e n				
o(lagn)	N >2)		j z√n					
	L= I	Y = N			5 L	 		
		(l<=r)		2)	4.			
		1 /1.0	/1			1		
	mid = (1+r)/2 ; f(mid = mid <= n && (mid+1)*(mid+1) > n							
	vet mid							
	:4:	mid &	mid>n)-	> 90 left				
	ols	0	go vigh	<u> </u>	$\stackrel{i}{\longrightarrow} f(i)$	out put		
	613		J. J		7 1(1)			
bir	Search	answe	r					