(I)	ALGORITHM for Question 1		3 - 62					
	Step 1: Declare global arr of 1e5	Size	sential - 14	gil				
	Declare n -> size of array							
	sum -> max sum & intialize O							
	ele_ent > Element count 2 intralize 0							
	min -> -(1e9+1)							
	// for finding Highest -re number in [Edge case]							
	Step 2: FOR $i = (0)$ to $(n-1)$							
	Read arreil							
	1F (arr [i] 7 = 0)							
	Add it to sum							
	Increase element count							
	ELSE							
	IF (arreily min) min = arreil // For Highest -ve number in Array							
	Step 3: IF (ele-cont 1=0) // Of tre number exist							
	point sum, ele-cnt							
	ELSE							
	point min, 1	// If all elements						
			Highest - re num					
(II)	Day Run for sample Input	apper test		7				
	5	sum (0)	ele cont (0)	min				
	12-4-23 17=0	1	1	-(le9+1)				
	27=0	3	2	-(le9+1)				
	-4 × 0 -2 × 0		2	-4				
	3 7=0	6	3	- <u>2</u>				
	(3)	6 3	3					
33	ele-cnt =0 -> Ans is							
	3 4-1-4	(3)	Service A la	nd.				
		The state of the s						
/ision								

Algorithm for Question 2 Start

Step 1: Declare two global arr 'à 4'b' of size (1e5)

Step 2: Declare test cint)

Read test

WHILE (test --) // Loop runs for each TEST

Declare n

Declare madness & intralize to 0

Read n, a[0], a[1], ... a[n-1]

b[0], b[1], -- b[n-1]

11 LOGIC

FOR 1 = 0 to n-1

FOR j= 1 to n-1

IF (bEj) >= a[i])

madness = max (madness, "1-1)

ELSE

break the loop

// since a 1 b are non decreasing sequence

point madness

(11)				
Day Run for Sample test	i	di ji	madness	j break at
	0	(0 to 8)	but \$4 3	(j=4)
9	10	(1 to 8)	$\max(3,2)=3$	(j=4)
773332221	2	(2 to 8)	$\max(7-2,3)=5$	(j=81)
88 77 5 5 43 2	3	(3 to 8)	max(7-3, 5) = 5	(j=8)
197	4	(4 to 8)	max(7-4,5) = 5	(j=8)
012345678	5	(5 to 8)	max(8-5,5)=5	D
	6	(6 to 8)	max (8-6, 5)=5	0
	8	(7 to 8)	max(8-7,5)=5	n
final Answer => (5)	a.		$max \Rightarrow (5)$	