H a-) $f(n) = n^2 + 3n$ 9(0)= 02+2 solition, we need to take limit to intends lim (2n+7) · The fine solution approaches to "O" f(n) = O(g(n)) b-) f(n)=12n+12y,(n2) g(n)= n2+6n · Answeris f(n) = O(g(n)) C7 fln>2 n log_(2n) g(n)2 n+ log_(8n3) n. log2 (3n) · Sollin 12 f(n) = 58 (g(n)) f(n) = n + 50 s(n)=3.21 (-) f(n)= 3/2n and g(n) = J3n 1 linso · The solution approaches sero so the answer is => S(n) = O(g(n))

2	de la company de
	· Accuse of code block theretions pepcet it their as long as light size,
	Because of code black theretions perfect it that as tong as the
	b) Method B over method A. Method worst-duse him comp. 15 DCn)
and the same	also nettado cello mathall functions n times. 50 O(n) "O(n) = O(n2)
4.	Transport was the same state of the same state o
	c) It is impossible to calculate because of loop never ends.
	D) worst-cox is allippet is lower than h so the same comp
	$\mathcal{O}(\mathcal{O})$
40,	Control of the second of the s
3)	There is no difference between two nethod in turn of two complexeties.
	· BI with Loop function is more efficient brewse it has a supplier implement
	and does the some task in fewer this of code.
	· Also another advantage is when we change the import store, we have to
	change to the role of willrutloop function but in withloop function how
bedreiten Van Carl	to plut court.
	The second secon
42	No. there is no solution, to find exact number in a constant time.
47	No. there is no solution, to find exact number in a constant time.
4)	We have to search all every to it includes our trust number or noting
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4)	No, there is no solution, to find exact number in a constant time, we have to search all every to it includes our trojet number or noting and it takes O(n) time.
4)	No, there is no solution, to find exact number in a constant time. We have to search all array to it includes our trojet number or noting and it takes O(n) time. Pseudo-cote:
42	No, there is no solution, to find exact number in a constant time, we have to search all every to it includes our trojet number or noting and it takes O(n) time.
4)	No, there is no solution, to find exect number in a constant time. We have to search all every to it includes our trojet number or noting and it takes O(n) time. Pseudo-code: function find-target (every, target):
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4)	No, there is no solution, to find exact number in a constant time. We have to search all every to it includes our troyet number or noting and it takes O(n) time. Pseudo-code: function find-target (array, target): int iday:=0 while ida < array.length bo if array [ida] == target:
4)	No, there is no solution, to find exect number in a constant time. We have to seach all every to it includes our target number or noting and it takes O(n) time. Pseudo-code: further find-target (array, target): int iday:=0 while idax < array, length bo if array [idaz] == target: return true
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-1		4
b)	· My solution opproach:	
	1-) Find must and mextures in array A. O(a)	
-	1-) Find mind and mexturbes in array A. O(n) 2-) Find mext and mend values in array B. O(n)	-
	3-1 Compare mint max 2 and most min 2. O(1)	-
	47 return the smilest.	
	psuedo ade:	
	function and-mn-product (A, B, A, A)	
	fine me ida i = 10 () []	-
	int mint:= inturty	
	int muss := - naturty	-
	int min2 = min!	
-	int mus2 = muxL;	-
	while lide < n bo	
	if A [1] > mul:	
	mel = A Cidel	
	it ACida3 < NIA1:	4. 1
	min1 = A Eila7	
A THE RESERVE OF THE PARTY OF T	idx +t;	
	1/2/20	
	while ide < m bo	
	17 BEIDES > mx2:	
	mx2 = BCideJ	
	if Slida? < min2:	
	mu2 = BKids	
	124+4	-
	if min2 × min1 × min1 × min2 bs	
	return min2 × mix1	-
	return mex? min!	
	The Complainty = O(n) + O(n) = 2°(00) = O(n)	
	(-10) -3 -1 0 1 3 /+ mh	