1.4	Question no. 1
(a) ir	abc (3)
_	uation If (3==0) x
	Else
	return (abc(3/3+1)+n-1);
	return (abc (2) + 3-1)
and Iters	otion ( $f(2==0) \times$
	else
	return (abc (0+1)+2-1)
2.8	return (abc(1) + 2-1)
3rd Iteral	
	elie
1911	relun (abre (0+1)+1-1)
	return (abc (1) +0)
1th Iter	ation if (1==0) x
1, 10	elie
	return (abc (0+1) + 1-1)  return (abc (1) +0)
2 12 12 12 12	return (abc(1) +0)
	0
	•
_	D
	q ·

This function is not good recursive function because it is not achieving its base care while rosse, the 40 run again and again Coop will not terminate code

Question no. 2	
$n=3$ $A = \{3,4,5,6,7,8,9,10,11\}$	
Binary Search Code:	
Dry Run: - start mid rend	
A = \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	
mid = 0+8 =4	
1st Iteration:- 2	
If a[mid] < 3 False	
elle 1f a (mid]>3 True	A
end = mid-1	
end = 3	
2nd Iteration:-	
XX /odhar mid = 0+3 = 1	
start mid 2	-10
A = \{ 3, 4, 5, 6 \} 0.123	
If a [mid] <3 Falle	
else if a [mid] >3 True	
end = mid - 1	
end =0	_

3 rd Iteration	· hate is		
mid = 0+0	= 0		
2		4.7/E	
if almid) <3	Fahe		
che if almid] >3'			
ehe Artist			
return mid			
So , find the el	ement	3	en
ind ex o			
whose running -	line	is	log(n)
			U