DAY-35. 1. Trapping Pain Water. Riven non negative pumbors integra where the width of each boot is I, conjute how much water it is able to trop after raining. trangle: input: asx = [3,0,3] the smucture will look like -H Approach! pre compute rere righest bas bas in linear time. Then use these gre conjuted values to find the amount of water in every array element. Algorian : -Create two wists -- left
and right of size n.

O REDMI NOTE 9
AI QUAD CAMERA a given array).

> Puna loop from 1 to not for induces of are update left [i] as man (left [in], arr[i]) -> update right [n-] (n is the len of arr) with arrio]

Dun a loop from end to start.

Update right [] and manulaghting arright -> Traverse the lists stourt to end I The amount of water will be stored intend cooling is min (9,6) - arr [] (where a sleftli] and b = right[i]) add hus value to total amount of of water stored Implementation: des find Water (arr, n)! left = [0] *n, night = [0] *n water = 0 Loft 10] = arrol for i in range (1,n): left = man left[i-1], arroll) plephon . origint [in-i] = arr [n-i] for i in range (n-2,-1,-1): rigint [i] = morn (right[i+i], arrli]) for is in range (0, n):
water t= min(left [i], night [i])-anti] O REDMI NOTE 9

Al QUAD CAMERACTOR N marger.

2). Largest Sum contiguous Subarray Kadane's Algorithm: Intalize! man-so-for =0 Loop for each element of array > man-ending-here + = a[i] -> if (man-so for & L main ending here) man so far = man ending nex -> if (man-ending-here 20) more onding here - 0 return man - >o fax Implementation: def man Sub Array Sunn (arr): manyes=0 o = won i som for ion in arr: man now += i 17 man now > man res: manres = mannow if mannows 0; man now = 0 O REDMI NOTE 9 MANYES