▼ DAA Practical 7

Maximum Sum Subarray Problem

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Name - Rishabh Jain
Branch - CSE - A
Roll No - 54
a=[13,-3,-25,20,-3,-16,-23,18,20,-7,12,-5,-22,15,-4,7]
#Ans - 43
b=[-2,-5,6,-2,-3,1,5,-6]
#Ans - 7
c=[-2,1,-3,4,-1,2,1,-5,4]
h1 = len(a)-1
h2 = len(b)-1
h3 = len(c)-1
def dac(arr,1,h):
 if(l==h):
   return arr[1]
  else:
   mid = (1+h)//2
   lefts = -9999
   sum = 0
   for i in range(mid,1,-1):
     sum+=arr[i]
     if(sum>lefts):
       lefts = sum
   rights = -9999
    sum = 0
   for j in range(mid+1,h):
     sum+=arr[j]
     if(sum>rights):
       rights = sum
   11 = dac(arr,1,mid)
   r1 = dac(arr,mid+1,h)
   return max(max(l1,r1), lefts+rights)
dac(a,l,h1)
     43
dac(b,1,h2)
     7
dac(c,1,h3)
     6
```