MAXIMUM SUBARRAY SUM

ORDER I.e TIME COMPLEXITY IS O(n)

#include<iostream>

using namespace std;

int main()

{

int n,i,currsum=0,maxsum=0;

cin>>n;

int \*a=new int[n];

for(i=0;i<n;i++)

{

cin>>a[i];

}

for(i=0;i<n;i++)

{

currsum=currsum+a[i];

if(currsum<0)

{

currsum=0;

}

maxsum=max(currsum,maxsum);

}

cout<<maxsum<<endl;

}