**ORDER OF n2- Time complexity**

**CUMMULATIVE SUM ARRAY APPROACH**

#include<iostream>

using namespace std;

int main()

{

int n,i,j,sum=0,maxsum=0,k;

int left=-1,right=-1;

cin>>n;

int \*a=new int[n];

int \*csum=new int[n];

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

{

cin>>a[i];

csum[i]=0;

}

csum[0]=a[0];

for(i=1;i<n;i++)

{

csum[i]=csum[i-1]+a[i];

}

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

{

cout<<csum[i]<<" ";

}

cout<<endl;

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

{

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

{

sum=0;

sum=csum[j]-csum[i-1];

if(maxsum<sum)

{

maxsum=sum;

left=i;

right=j;

}

}

}

for(k=left;k<=right;k++)

{

cout<<a[k]<<" ";

}

cout<<"\n";

cout<<maxsum<<endl;

}

Output-

-4 -3 0 -2 14 16 8 -1 3

1 3 -2 16 2

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