LARGEST SUM CONTIGUOUS SUBARRAY
Find the sum of contiguous subarray within a 1D
array of numbers which has the largest sum.

KADANE'S
ALGORITHIM

Solution

Let a be the array for which we have to find the max sum of subarray and n be no. of elements in it

Let cs=maxsum=a[0]

```
1. for i : 0 to n
       1.1. if ( a[i] >= 0 )
              1.1.1. if cs >= 0
                        cs = cs + a[i]
                     else
                        cs = a[i];
              1.1.2. if( maxsum cs )
                        maxsum = cs
       1.2. else
              1.2.1. if( a[i] > cs )
                        cs = a[i]
                     if( cs > maxsum )
                        maxsum = cs
              1.2.2. else
                        cs = cs+ a[i]
                     if( cs < 0 )
                        cs = 0
```

Nerving Into
Data Structures