

FIND-MAXIMUM-SUBARRAY($A, low, high$)

if $high == low$

return ($low, high, A[low]$) // base case: only one element

else $mid = \lfloor (low + high) / 2 \rfloor$

 ($left-low, left-high, left-sum$) =

 FIND-MAXIMUM-SUBARRAY(A, low, mid)

 ($right-low, right-high, right-sum$) =

 FIND-MAXIMUM-SUBARRAY($A, mid + 1, high$)

 ($cross-low, cross-high, cross-sum$) =

 FIND-MAX-CROSSING-SUBARRAY($A, low, mid, high$)

if $left-sum \geq right-sum$ and $left-sum \geq cross-sum$

return ($left-low, left-high, left-sum$)

elseif $right-sum \geq left-sum$ and $right-sum \geq cross-sum$

return ($right-low, right-high, right-sum$)

else return ($cross-low, cross-high, cross-sum$)