

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

// Find a maximum subarray of the form $A[i \dots mid]$.

$left\text{-}sum = -\infty$

$sum = 0$

for $i = mid$ **downto** low

$sum = sum + A[i]$

if $sum > left\text{-}sum$

$left\text{-}sum = sum$

$max\text{-}left = i$

// Find a maximum subarray of the form $A[mid + 1 \dots j]$.

$right\text{-}sum = -\infty$

$sum = 0$

for $j = mid + 1$ **to** $high$

$sum = sum + A[j]$

if $sum > right\text{-}sum$

$right\text{-}sum = sum$

$max\text{-}right = j$

// Return the indices and the sum of the two subarrays.

return ($max\text{-}left, max\text{-}right, left\text{-}sum + right\text{-}sum$)