

PSEUDO_CODE (OPTIMIZED SOL.)

Input: array A of size n

Output: maximum sum and subarray indices (start, end)

```
currentSum = A[0]
bestSum = A[0]
start = 0
end = 0
tempStart = 0

For i = 1 to n-1:
    if (currentSum + A[i] < A[i]):
        currentSum = A[i]
        tempStart = i      // start new subarray
    else:
        currentSum += A[i]

    if (currentSum > bestSum):
        bestSum = currentSum
        start = tempStart
        end = i

Return bestSum, start, end
```