

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