Two Values

Need two recursive values:

\( \text{INCLUDE}(i) \): sum of the maximum sum subarray among elements from 0 to \( i \) that includes index \( i \) in the sum

\( \text{OPT}(i) \): sum of the maximum sum subarray among elements 0 to \( i \) (that might or might not include \( i \))

How can you calculate these values? Try to write recurrence(s), then think about memoization and running time.