

Sumas Parciales

Función Kadane(A[0..n-1]):

max_actual = 0

max_global = -∞

Para cada elemento x en el arreglo A:

max_actual = max(x, max_actual + x)

max_global = max(max_global, max_actual)

Devolver max_global

$$\left[\frac{3}{1}, \frac{-4}{2}, \frac{5}{3}, \frac{-2}{4}, \frac{0}{5}, \frac{0}{6} \right]$$

$$1 \begin{cases} \text{max_actual} = \text{max}(3, 0+3) = 3 \\ \text{max_global} = \text{max}(0, 3) = 3 \end{cases}$$

$$2 \begin{cases} \text{max_actual} = \text{max}(-4, 3+(-4)) = -1 \\ \text{max_global} = \text{max}(3, -1) = 3 \end{cases}$$

$$3 \begin{cases} \text{max_actual} = \text{max}(5, -1+5) = 5 \\ \text{max_global} = \text{max}(3, 5) = 5 \end{cases}$$

$$4 \begin{cases} \text{max_actual} = \text{max}(-2, 3) = 3 \\ \text{max_global} = \text{max}(5, 3) = 5 \end{cases}$$

$$6 \begin{cases} \text{max_actual} = \text{max}(0, 3+0) = 3 \\ \text{max_global} = \text{max}(5, 3) = 5 \end{cases}$$

$$5 \begin{cases} \text{max_actual} = \text{max}(3, 3+0) = 3 \\ \text{max_global} = \text{max}(5, 3) = 5 \end{cases}$$