

# Naive Maximum Subarray Algorithm

**Input :** A sequence of  $n$  numbers  $(a_1, a_2, \dots, a_n)$

**Output :**  $I, J$  such that  $\sum_{k=I}^J a_k$  maximal.

$M \leftarrow 0; I \leftarrow 1; J \leftarrow 0$

**for**  $i \in \{1, \dots, n\}$  **do**

**for**  $j \in \{i, \dots, n\}$  **do**

$m = \sum_{k=i}^j a_k$

**if**  $m > M$  **then**

$M \leftarrow m; I \leftarrow i; J \leftarrow j$

**return**  $I, J$