Presenting an Algorithm in LaTeX

Puneeth MS

June 7, 2025

Algorithm Example

Below is an example of an algorithm written in LaTeX using the algorithm2e.

Algorithm 1: Find the Maximum Value in a List

Data: Input data for the algorithm
Result: Output of the algorithm
Input: A list of integers, $A = [a_1, a_2, \ldots, a_n]$
Output: The maximum value in the list

1 **begin**
2   **Function** FindMax(A)**:**
3      $max \leftarrow A[0]$;
4   **for** $i \leftarrow 1$ **to** *length(A) - 1* **do**
5   **if** $A[i] > max$ **then**
6          $max \leftarrow A[i]$;
7   **end**
8   **end**
9   **return** max;
10   **return** *Call* FindMax(A);
11 **end**