

Presenting an Algorithm in LaTeX

Hemanth S.P

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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, $A = [a_1, a_2, \dots, a_n]$

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
```
