Presenting an Algorithm in LaTeX

M Shivakumar

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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
       Function FindMax(A):
2
          max \leftarrow A[0];
3
          for i \leftarrow 1 to length(A) - 1 do
 4
 5
              if A[i] > max then
                 max \leftarrow A[i];
 6
              \quad \mathbf{end} \quad
 7
          end
8
          {\bf return}\ max;
      return Call FindMax(A);
11 end
```