Algorithms in LaTeX

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Algorithm 1 My First Simple Algorithm

Require: Randomly populated array
Ensure: Sorted array

1: **if** $i \leq 0$ **then**
2:    $i \leftarrow 1$
3: **else**
4:    **if** $i \geq 0$ **then**
5:       **for** $j = 0$ **to** 10 **do**
6:          carryOutSomeProcessing()
7:       **end for**
8:    **end if**
9: **end if**
10: **return** i

And of course, we can refer to the algorithm using `\ref`: See Algorithm 1 but the good thing is we can also refer to a specific line e.g. Line 4 or Line 6.