Algorithms in LATEX

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Algorithm 1 My First Simple Algorithm

Require: Randomly populated array
Ensure: Sorted array
    if $i \leq 0$ **then**
2:   $i \leftarrow 1$
    else
4:   **if** $i \geq 0$ **then**
      for $j = 0$ **to** 10 **do**
6:       blah()
       carryOutSomeProcessing()
8:     **end for**
    end if
10: **end if**
    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 7.