Algorithm 1: How to write algorithms

Data: this text
Result: how to write algorithm with LaTeX2e

1 initialization;
2 **while** *not at end of this document* **do**
3   read current;
4   **repeat**
5   do these things;
6   **until** *this end condition*;
7   **if** *understand* **then**
8   go to next section;
9   current section becomes this one;
10   **else**
11   go back to the beginning of current section;
12   **end**
13   **do**
14   do these things;
15   **while** *this end condition*;
16 **end**

Algorithm 2: How to write algorithms

Result: Write here the result

1 initialization;
2 **while** *While condition* **do**
3   instructions;
4   **if** *condition* **then**
5   instructions1;
6   instructions2;
7   **else**
8   instructions3;
9   **end**
10 **end**