Evolution of an algorithm: from diagram, to JJ pseudo-code, to Java code

Flow Block Diagram | JuniorJava (pseudo-code) | Actual Java code
--- | --- | ---
| expr | If expr then | if (expr) {
| Line1 | Line1 | Line1;
| Lines | Lines | Lines;
| LineL | LineL | LineL;
| Else | — | } else {
| LineM | LineM | Line1;
| Lines | Lines | Lines;
| LineN | LineN | LineM;
| EndIf | } // EndIf

An example

<table>
<thead>
<tr>
<th>t</th>
<th>x &lt; y</th>
<th>f</th>
</tr>
</thead>
</table>
| x <- 0 | If (x < y) then | if (x < y) {
| y <- y+1 | Set x = 0 | x = 0;
| z <- z+2 | Inc y by 1 | y = y++;
| | Inc z by 2 | z += 2;
| x <- x+y | Else | } else {
| y <- y-x | Inc x by y | x = x + y;
| z <- x*y | Dec y by x | y = y - x;
| | Set z = x*y | z = x * y;
| | EndIf | } // EndIf

An example, without horizontal lines (notice the indentation)

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| x <- 0 | If (x < y) then | if (x < y) {
| y <- y+1 | Set x = 0 | x = 0;
| z <- z+2 | Inc y by 1 | y = y++;
| | Inc z by 2 | z += 2;
| | Else | } else {
| | Inc x by y | x = x + y;
| | Dec y by x | y = y - x;
| | Set z = x*y | z = x * y;
| | EndIf | } // EndIf