Express the program

\[(x := 1. \ x := x + y) \parallel (y := 2. \ y := x + y)\]

without using any programming notations (no assignment, no dependent composition, no independent composition), where \(x\) and \(y\) are

(a) boundary variables and assignment takes time 0.

\[x' = y + 1 \land y' = x + 2 \land t' = t\]

(b) interactive variables and assignment takes time 1.

\[x(t + 1) = 1 \land x(t + 2) = 3 \land y(t + 1) = 2 \land y(t + 2) = 3 \land t' = t + 2\]