Zeige in PP: $\{x = y\}\ \ [\,x := x + 1\,||\,y := y + 1\,]\ \ \{x = y\}$

$x = z \quad \rightarrow \quad x + 1 = z + 1$

$\{x + 1 = z + 1\}\ \ x := x + 1\ \ \{x = z + 1\}$

$x = z + 1 \quad \rightarrow \quad x = z + 1$

$\{x = z\}\ \ x := x + 1\ \ \{x = z + 1\}$

$y = z \quad \rightarrow \quad y + 1 = z + 1$

$\{y + 1 = z + 1\}\ \ y := y + 1\ \ \{y = z + 1\}$

$y = z + 1 \quad \rightarrow \quad y = z + 1$

$\{y = z\}\ \ y := y + 1\ \ \{y = z + 1\}$

$\{x = z \wedge y = z\}\ \ [\,x := x + 1\,||\,y := y + 1\,]\ \ \{x = z + 1 \wedge y = z + 1\}$

$x = z \wedge y = z \quad \rightarrow \quad x = z \wedge y = z$

$x = y \quad \rightarrow \quad x = z \land y = z$

$x = z + 1 \land y = z + 1 \quad \rightarrow \quad x = y$

$\{x = z \land y = z\} \;\; [\, x := x + 1 \,\|\, y := y + 1 \,] \;\; \{x = y\}$

$x = y \quad \rightarrow \quad x = x \land y = x$

$\{x = x \land y = x\} \;\; z := x \;\; \{x = z \land y = z\}$

$x = z \land y = z \quad \rightarrow \quad x = z \land y = z$

$\{x = y\} \;\; z := x \;\; \{x = z \land y = z\}$

$\{x = y\} \;\; z := x; \; [\, x := x + 1 \,\|\, y := y + 1 \,] \;\; \{x = y\}$

$\{x = y\} \;\; [\, x := x + 1 \,\|\, y := y + 1 \,] \;\; \{x = y\}$