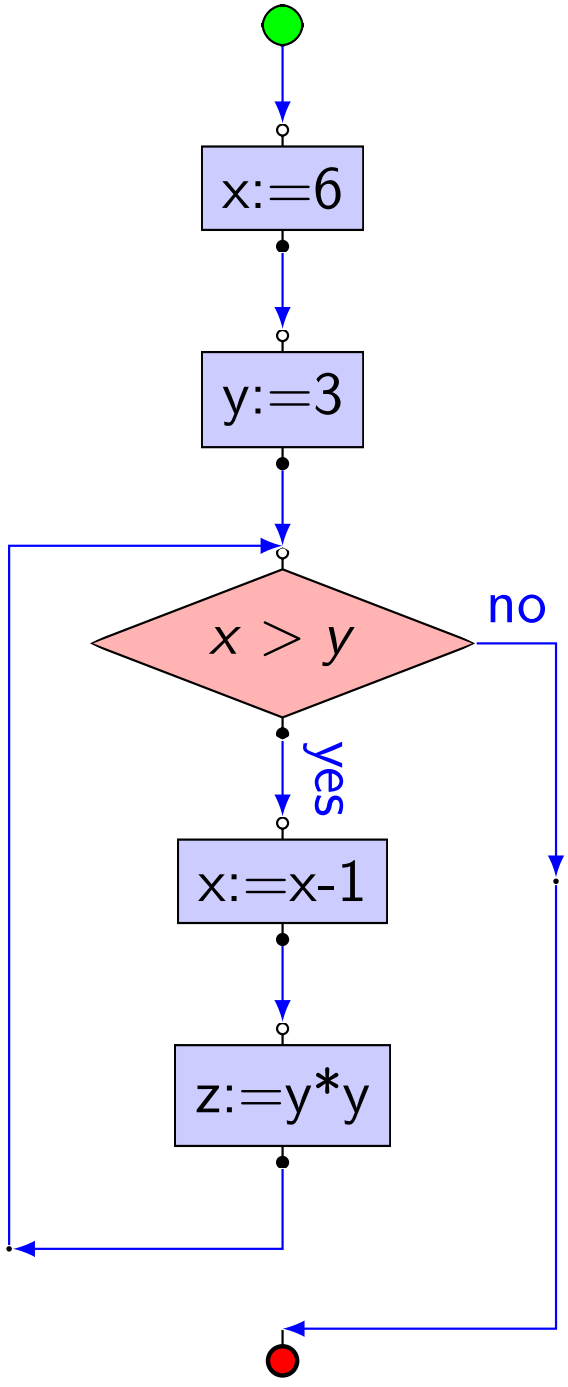
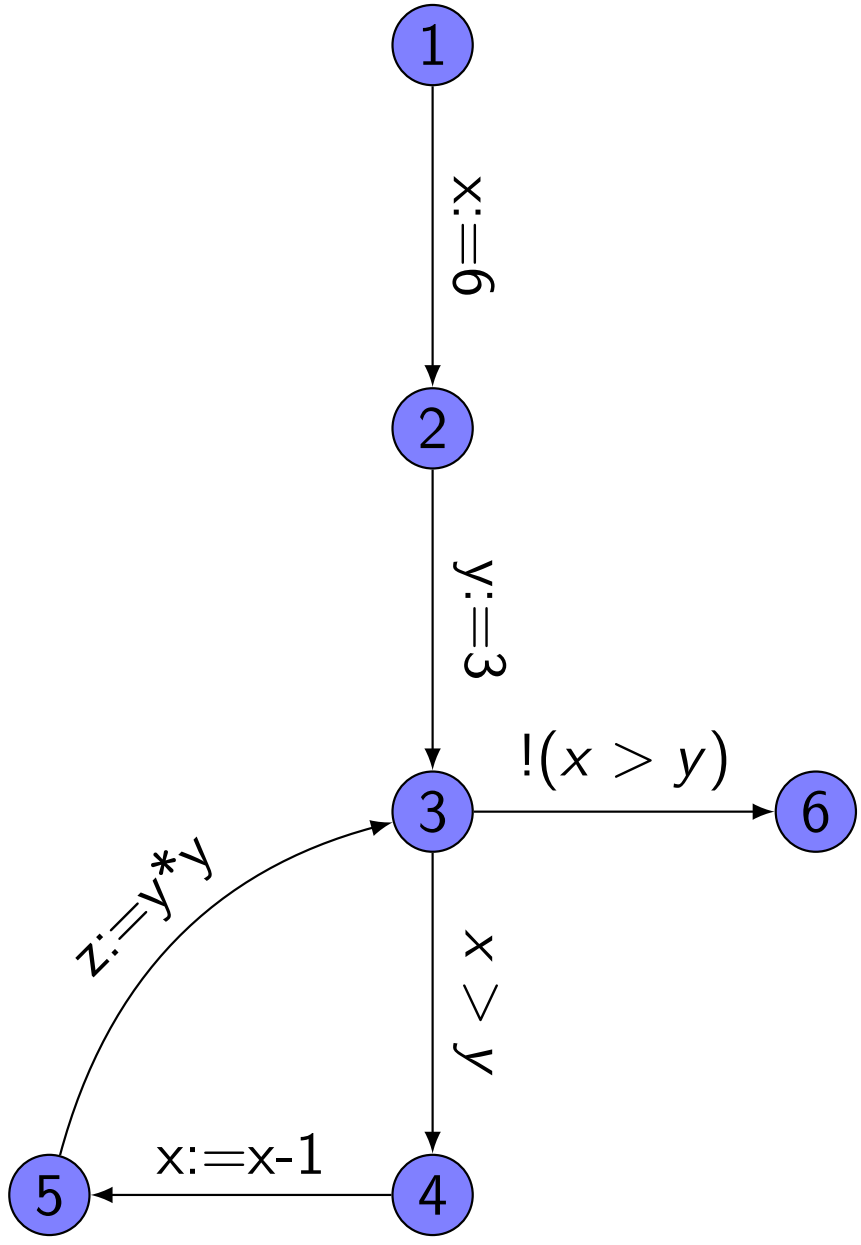
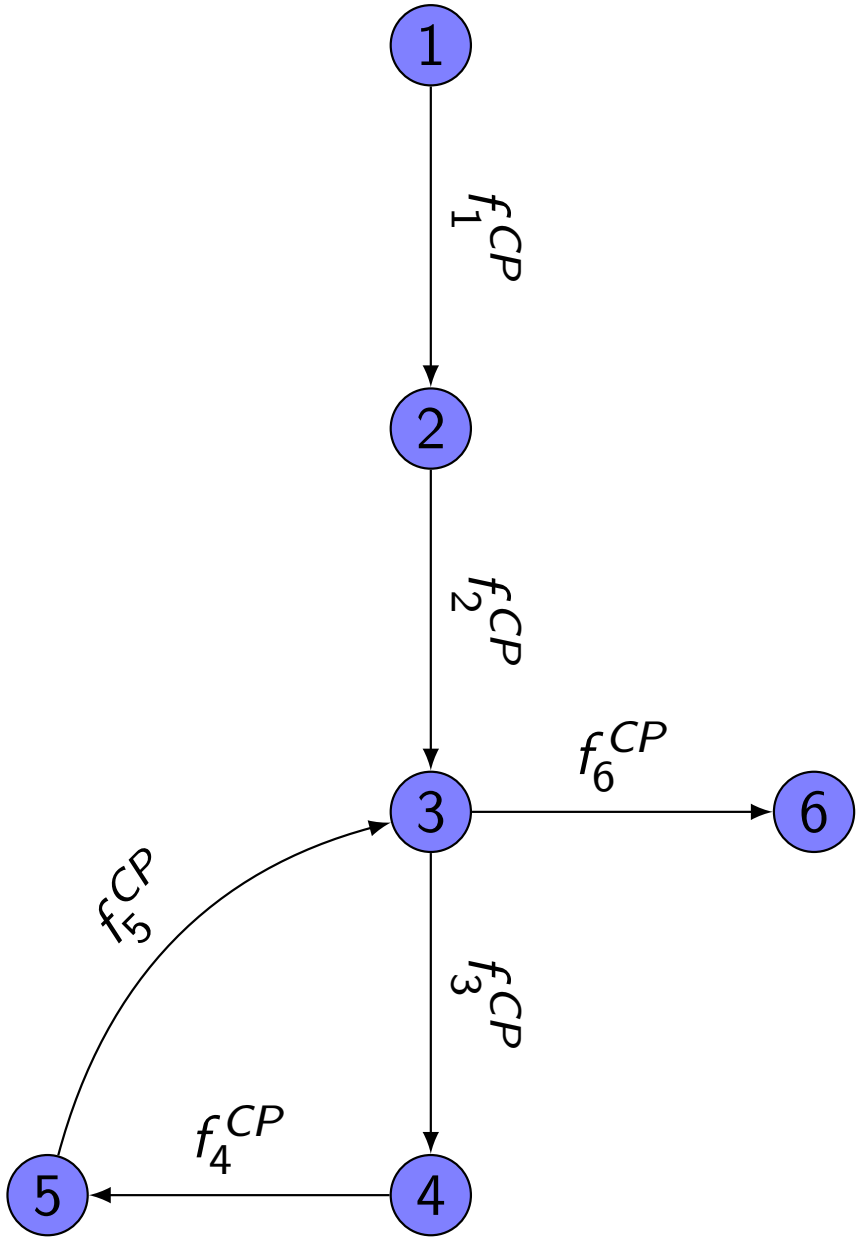

x:=6
y:=3
x > y
no
yes
x:=x-1
z:=y*y


1
x:=6
2
y:=3
3
!(x > y)
6
z:=y*y
x < y
5
x:=x-1
4

Transfer Functions

$$
\begin{aligned}
f_1^{CP}(\hat{\sigma}) &= \begin{cases} \bot & \text{if } \hat{\sigma} = \bot \\ \hat{\sigma}[x \to 6] & \text{otherwise} \end{cases} \\
f_2^{CP}(\hat{\sigma}) &= \begin{cases} \bot & \text{if } \hat{\sigma} = \bot \\ \hat{\sigma}[y \to 3] & \text{otherwise} \end{cases} \\
f_3^{CP}(\hat{\sigma}) &= \hat{\sigma} \\
f_4^{CP}(\hat{\sigma}) &= \begin{cases} \bot & \text{if } \hat{\sigma} = \bot \\ \hat{\sigma}[x \to (\hat{\sigma}(x) -^{CP} 1)] & \text{otherwise} \end{cases} \\
f_5^{CP}(\hat{\sigma}) &= \begin{cases} \bot & \text{if } \hat{\sigma} = \bot \\ \hat{\sigma}[z \to (\hat{\sigma}(y) *^{CP} \hat{\sigma}(y))] & \text{otherwise} \end{cases} \\
f_6^{CP}(\hat{\sigma}) &= \hat{\sigma}
\end{aligned}
$$



$$
\begin{aligned}
\hat{\sigma}_1 &= \{x \to \top, y \to \top, z \to \top\} \\
\hat{\sigma}_2 &= f_1^{CP}(\hat{\sigma}_1) \\
\hat{\sigma}_3 &= f_2^{CP}(\hat{\sigma}_2) \sqcup f_5^{CP}(\hat{\sigma}_5) \\
\hat{\sigma}_4 &= f_3^{CP}(\hat{\sigma}_3) = \hat{\sigma}_3 \\
\hat{\sigma}_5 &= f_4^{CP}(\hat{\sigma}_4) \\
\hat{\sigma}_6 &= f_6^{CP}(\hat{\sigma}_3) = \hat{\sigma}_3
\end{aligned}
$$