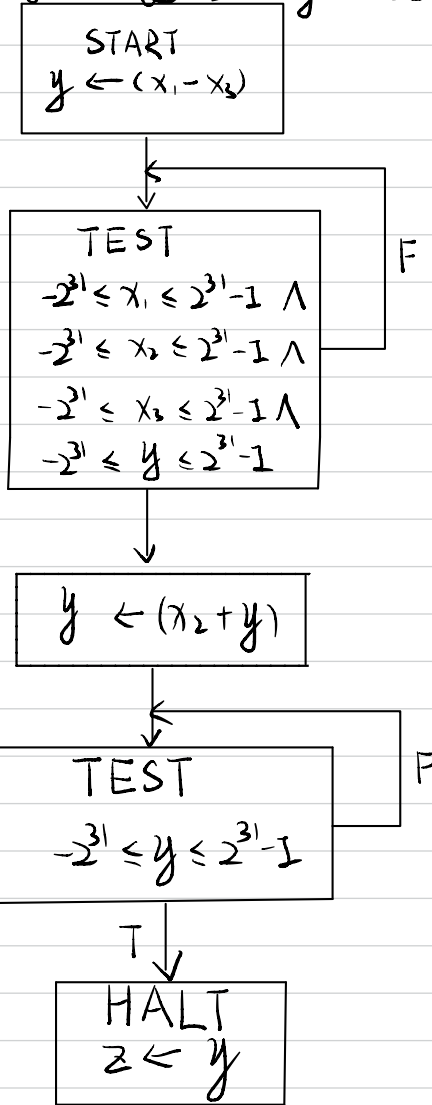


$P_1 : \mathbb{D}_{x_1} = \mathbb{D}_{x_2} = \mathbb{D}_{x_3} = \mathbb{D}_y = \mathbb{D}_z = \mathbb{Z}$



$$\begin{aligned}
 M[P](\bar{x}) = y &= \begin{cases} y, & -2^3 \leq y \leq 2^3 - 1 \\ w, & \neg(\dots) \end{cases} \quad \text{I} \\
 &= \begin{cases} x_2 + y, & -2^3 \leq x_2 + y \leq 2^3 - 1 \\ w, & \neg(\dots) \end{cases} \quad \text{II} \\
 &= \begin{cases} x_2 + y, & \text{I} \wedge \text{II} \\ w, & \neg(\text{I} \wedge \text{II}) \end{cases} = \begin{cases} x_2 + x_1 - x_3, & -2^3 \leq x_2 + x_1 - x_3 \leq 2^3 - 1 \wedge -2^3 \leq x_1 - x_3 \leq 2^3 - 1 \\ w, & \neg(\dots) \end{cases}
 \end{aligned}$$

$$\begin{aligned}
 T_1: p(\bar{x}) \equiv & (-2^3 \leq x_1 \leq 2^3 - 1 \wedge \\
 & -2^3 \leq x_2 \leq 2^3 - 1 \wedge \\
 & -2^3 \leq x_3 \leq 2^3 - 1 \wedge \\
 & -2^3 \leq x_1 - x_3 \leq 2^3 - 1 \wedge \\
 & -2^3 \leq x_2 + x_1 - x_3 \leq 2^3 - 1)
 \end{aligned}$$

$$\psi(\bar{x}, z) \equiv (z_1 = x_2 + x_1 - x_3)$$

$$\begin{aligned}
 T_2: p(\bar{x}) \equiv & (-2^3 \leq x_1 \leq 2^3 - 1 \wedge \\
 & -2^3 \leq x_2 \leq 2^3 - 1 \wedge \\
 & -2^3 \leq x_3 \leq 2^3 - 1 \wedge \\
 & -2^3 \leq x_2 + x_1 - x_3 \leq 2^3 - 1)
 \end{aligned}$$

$$\psi(\bar{x}, z) \equiv (z_1 = x_2 + x_1 - x_3)$$

$$\begin{aligned}
 D_z: \forall \bar{x} \in D_{\bar{x}} \cdot p(\bar{x}) \\
 \Rightarrow M[P](\bar{x}) \neq w \wedge \psi(\bar{x}, z)
 \end{aligned}$$

условие то же самое

\Rightarrow полн корр. \Rightarrow раст корр

$$D_z: \exists \text{ контрпример}$$

$$x_1 = -2^3 + 1 \quad x_3 = 2$$

$$x_2 = 2^3 - 1$$

$$\Rightarrow x_1 - x_3 < -2^3$$

$$\Rightarrow \forall \bar{x} \in D_{\bar{x}} \cdot p(\bar{x}) \not\Rightarrow M[P](\bar{x}) \neq w$$

\Rightarrow только раст корр