Bisogna definire la funzione di valutazione $\mathcal{I}[P]\sigma$, che valuta il programma P sulla memoria σ , restituendo σ' , la memoria σ modificata da P

 \mathcal{I} IPI[$z=\bot$, $y=\bot$]= $(\mathcal{L} \mathbb{T} z := y \mathbb{I} \circ \mathcal{L} \mathbb{T} y := y + 1 \mathbb{I} \circ \mathcal{L} \mathbb{T} y := z \mathbb{I} \circ \mathcal{L} \mathbb{T} z := 2 \mathbb{I}) [z = \bot, y = \bot] = 0$ $(\mathcal{E}[z:=y])(\mathcal{E}[y:=y+1])(\mathcal{E}[y:=z])(\mathcal{E}[z:=2])[z=\bot,y=\bot]))$ $[z=2, v=\bot]$

[z=2, y=3]

$$\mathcal{L}[z:=y] \circ \mathcal{L}[y:=y+1] \circ \mathcal{L}[y:=z] \circ \mathcal{L}[z:=2]$$
) [$z=\bot$, $y=\bot$] [$\mathcal{L}[z:=y] \circ \mathcal{L}[y:=y+1] \circ \mathcal{L}[y:=z] \circ \mathcal{L}[z:=2]$) [$z=\bot$, $y=\bot$] [$z=2$, $y=\bot$] [$z=2$, $y=\bot$]

[z=3, y=3]