

$$\langle (c_1 c_2 \dots c_5)^e, \vdash x: (2, h) \quad y: (7, e) \cdot z: (3, e) \rangle >^{C(P, H)}$$

$$\downarrow \text{Ass} \\ \langle (c_2 \dots c_5)^e, \vdash x: (2, h) \quad y: (7, e) \quad z: (0, e) \rangle$$

$$\downarrow \text{while true} \quad \text{ImpC} \\ \langle (c_3 c_4 c_2 c_3 c_4)^h (c_5)^e, \vdash x: (2, h) \quad y: (7, h) \quad z: (0, e) \rangle > \\ \downarrow \text{Ass} \\ \langle (c_4 c_2 c_3 c_4)^h (c_5)^e, \vdash x: (2, h) \quad y: (70, h) \quad z: (0, e) \rangle > \\ \downarrow \text{Ass} \\ \langle (c_2 c_3 c_4)^h (c_5)^e, \vdash x: (1, h) \quad y: (70, h) \quad z: (0, e) \rangle >$$

$$\downarrow \text{while true} \\ \langle (c_3 c_4 c_2 c_3 c_4)^h (c_5)^e, \vdash x: (1, h) \quad y: (70, h) \quad z: (0, e) \rangle > \\ \downarrow \text{Ass} \\ \langle (c_4 c_2 c_3 c_4)^h (c_5)^e, \vdash x: (1, h) \quad y: (700, h) \quad z: (0, e) \rangle >$$

$$\downarrow \text{Ass} \\ \langle (c_2 c_3 c_4)^h (c_5)^e, \vdash x: (0, h) \quad y: (700, h) \quad z: (0, e) \rangle >$$

$$\downarrow \text{while false} \\ \langle (c_5)^e, \vdash x: (0, h) \quad y: (700, h) \quad z: (0, e) \rangle >$$

$$\downarrow \text{Ass} \\ \boxed{\langle -, \vdash x: (0, h) \quad y: (700, h) \quad z: (700, h) \rangle >}$$