Regole di inferenza

Semantica big-step

$$\text{B-Num} \frac{-}{\langle n, s \rangle \Downarrow n} \qquad \text{B-Loc} \frac{-}{\langle l, s \rangle \Downarrow s(l)} \qquad \text{B-Skip} \frac{-}{\langle skip, s \rangle \Downarrow s} \qquad \text{B-Add} \frac{\langle E_1, s \rangle \Downarrow n_1 \quad \langle E_2, s \rangle \Downarrow n_2}{\langle E_1 + E_2 \rangle \Downarrow n_3} n_3 = add(n_1, n_2)$$

$$\text{B-Assign} \frac{\langle E, s \rangle \Downarrow n}{\langle l := e, s \rangle \Downarrow s[l \mapsto n]} \qquad \text{B-Assign.s} \frac{\langle E, s \rangle \Downarrow n}{\langle l := e, s \rangle \Downarrow \langle skip, s[l \mapsto n] \rangle} \qquad \text{B-Seq} \frac{\langle C_1, s \rangle \Downarrow s_1 \quad \langle C_2, s_1 \rangle \Downarrow s'}{\langle C_1; C_2, s \rangle \Downarrow s'}$$

$$\text{B-Seq.s} \frac{\langle C_1, s \rangle \Downarrow \langle skip, s_1 \rangle \quad \langle C_2, s_1 \rangle \Downarrow \langle r, s' \rangle}{\langle C_1; C_2, s \rangle \Downarrow \langle r, s' \rangle}$$