

Exercise 7.3: Specify a constraint rule for  $\text{assert}(E > X)$ .

解答:

The constraint rule for  $\text{assert}(E > X)$ :

$$\text{assert}(E > X): \llbracket v \rrbracket = \text{JOIN}(v)[X \rightarrow \text{lt}(\text{JOIN}(v)(X), \text{eval}(\text{JOIN}(v), E))]$$

其中  $\text{lt}$  为小于操作:

$$\text{lt}([l_1, h_1], [l_2, h_2]) = [l_1, h_1] \sqcap [-\infty, h_2]$$