$$VC[c](f) = (g, S) \qquad \{R_1 \leq R_2\}$$

$$f ::= a \mid [b] \cdot a \mid f_1 \pm f_2 \mid f[x \mapsto a]$$

$$VC[skip](f) = (1 + f, \emptyset) \qquad VC[x := a](f) = (1 + f[x \mapsto a], \emptyset)$$

$$VC[empty](f) = (f, \emptyset)$$

$$VC\left[\begin{array}{l}\text{if } b \text{ then } c_1 \\ \quad \text{else } c_2\end{array}\right](f) = (1 + [b] \cdot g_1 + [\neg b] \cdot g_2, \; S_1 \cup S_2)$$

donde $(g_1, S_1) = VC[c_1](f)$

$(g_2, S_2) = VC[c_2](f)$

$$VC[c_1; c_2](f) = (g_1, \; S_1 \cup S_2)$$

donde $(g_2, S_2) = VC[c_2](f)$

$(g_1, S_1) = VC[c_1](g_2)$

$$VC[\text{while } b \text{ do } \{I\}\ c](f) = (I, \{\underbrace{1 + [b] \cdot g + [\neg b] \cdot f \leq I}\} \cup S)$$

donde $(g, S) = VC[c](I)$

$$f = a \mid k \cdot f \mid \underline{[b] \cdot f} \mid f_1 + f_2 \mid f[x \mapsto a]$$

$x \leq 0 \Rightarrow x + y \leq y$

$b \Rightarrow 1 + g \leq I$

$\neg b \Rightarrow 1 + f \leq I$

$[b_1] \cdot [b_2] \cdot a$

$[b_1 \wedge b_2] \cdot a$

$[x \leq 0] \cdot (x + y) \leq y$

$[b] x + [\neg b] \cdot y$

NORMALIZACIÓN

$$f = a \mid [b] \cdot a \mid f_1 \pm f_2$$