proc hablantesSuperpuestos (in r: reunion, in prof: $\mathbb{Z}$, in freq: $\mathbb{Z}$, in umbral: $\mathbb{Z}$, out result: Bool) {

Pre $\{esReunionValidaAux(r, prof, freq)\}$

Post $\{result = \neg noHayHablantesSuperpuestos(r, freq, umbral)\}$

}

pred noHayHablantesSuperpuestos (r: reunion, freq: $\mathbb{Z}$, umbral: $\mathbb{Z}$) {

$(\forall i, j : \mathbb{Z})\ 0 \leq i, j < |r| \wedge (i \neq j) \longrightarrow_L$

$(\forall k, l : \mathbb{Z})\ 0 \leq k, l < |r[i]_0| \ \wedge k < l \longrightarrow_L$

$\neg haySilencio(subseq(r[i]_0, k, l), umbral, freq) \longrightarrow_L esSilencio(r[j]_0, umbral, freq, (k, l))\}$

pred haySilencio (s: señal, umbral: $\mathbb{Z}$, freq: $\mathbb{Z}$) $\{(\exists i, j : \mathbb{Z})\ (0 \leq i, j < |s| \wedge (i < j)) \ \wedge_L esSilencio(s, umbral, (i, j))\}$