

```

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

```