

```

proc ralentizar (inout r: reunion, in prof:  $\mathbb{Z}$ , in freq:  $\mathbb{Z}$ ) {
  Pre {esReuniónVálidaAux(r, prof, freq)  $\wedge$  r0 = r}
  Post {
    esReuniónVálidaAux(r, prof, freq)  $\wedge_L$ 
    lasSeñalesTienenElDobleDeMuestras(r, r0)  $\wedge_L$ 
    promedioEntrePares(r, r0)}
}

pred lasSeñalesTienenElDobleDeMuestras (r: reunion, r0 : reunion) { ( $\forall i : \mathbb{Z}$ )  $0 \leq i < |r_0|$ 
 $\longrightarrow_L (2 \cdot |r_0[i]_0|) = (|r[i]_0| + 1)$  }

pred promedioEntrePares (r: reunion, r0 : reunion) { ( $\forall i : \mathbb{Z}$ )  $0 \leq i < |r|$   $\longrightarrow_L$  (
( $\exists j : \mathbb{Z}$ )  $0 \leq j < |r|$   $\wedge_L (r[i]_1 = r[j]_1) \wedge_L$ 
( ( $\forall q : \mathbb{Z}$ )  $0 \leq q < |r_0[i]_0| \wedge (\neg esPar(q)) \longrightarrow_L (r_0[i]_0[q] = r[j]_0[\frac{q-1}{2}])$ ))) }

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