

```

proc ralentizar (inout r: reunion, in prof:  $\mathbb{Z}$ , in freq:  $\mathbb{Z}$ ) {
  Pre {esReuniónVálidaAux(r, prof, freq)  $\wedge$   $r_0 = r$ }
  Post {
    esReuniónVálidaAux(r, prof, freq)  $\wedge_L$ 
     $|r| = |r_0| \wedge_L$ 
    lasSeñalesTienenElDobleDeMuestras(r,  $r_0$ )  $\wedge_L$ 
    promedioEntrePares(r,  $r_0$ )}
}

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

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

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