

```

proc acelerar (inout r: reunion, in prof:  $\mathbb{Z}$ , in freq:  $\mathbb{Z}$ ) {
  Pre {esReuniónVálidaAux(r, prof, freq)  $\wedge$  r0 = r}
  Post {
    esReuniónVálidaAux(r, prof, freq)  $\wedge_L$ 
     $|r| = |r_0| \wedge_L$ 
    lasSeñalesTieneLaMitadDeMuestras(r, r0)  $\wedge_L$ 
    losImpares(r, r0)}
}

pred lasSeñalesTieneLaMitadDeMuestras (r: reunion, r0 : reunion) { ( $\forall i : \mathbb{Z}$ )  $0 \leq i < |r| \longrightarrow_L$ 
if esPar( $|r[0]_0|$ ) then  $|r[i]_0| = \frac{|r[0]_0|}{2}$  else  $|r[i]_0| = \frac{|r[0]_0|-1}{2}$  fi
}

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

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