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 \begin{array}{l} \operatorname{proc \ esReunionValida?} \ (\operatorname{in} \ r: \ reunion, \ \operatorname{in} \ prof \colon \mathbb{Z}, \ \operatorname{in} \ freq \colon \mathbb{Z}, \ \operatorname{out} \ result \colon \operatorname{Bool}) \ \left\{ \begin{array}{l} \operatorname{Pre} \ \{|r| \geq 0 \land prof > 0 \land freq > 0\} \\ \operatorname{Post} \ \{result = \operatorname{true} \leftrightarrow \operatorname{esReunionValidaAux}(r, prof, freq)\} \end{array} \right\} \\ \operatorname{pred \ esReunionValidaAux} \ (r: \ reunion, prof \colon \mathbb{Z}, \ freq \colon \mathbb{Z}) \ \left\{ \begin{array}{l} |r| > 0 \land \\ \operatorname{contieneSe\~nalesValidas}(r, prof, freq) \land \\ \operatorname{lasLongitudesDeSe\~nalSonIguales}(r) \land \\ \operatorname{losHablantesDistintos}(r) \land \\ \operatorname{losHablantesEstanEnRangosDeOANMenosl}(r) \end{array} \right\} \\ \operatorname{pred \ contieneSe\~nalesValidas} \ (r: \ reunion, \ prof \colon \mathbb{Z}, \ freq \colon \mathbb{Z}) \ \left\{ (\forall i \colon \mathbb{Z}) \ 0 \leq i < |r| \ \longrightarrow_L \operatorname{esSe\~nalAux}(r[i]_0, prof, freq) \right\} \\ \operatorname{pred \ lasLongitudesDeSe\~nalSonIguales} \ (r: \ reunion) \ \left\{ (\forall i,j \colon \mathbb{Z}) \ 0 \leq i,j < |r| \land i \neq j \ \longrightarrow_L \left( |r[i]_0| = |r[j]_0| \right) \right\} \\ \operatorname{pred \ losHablantesDistintos} \ (r: \ reunion) \ \left\{ (\forall i,j \colon \mathbb{Z}) \ 0 \leq i,j < |r| \land i \neq j \ \longrightarrow_L \left( |r[i]_1 \neq r[j]_1 \right) \right\} \\ \operatorname{pred \ losHablantesEstanEnRangosDeOANMenosl} \ (r: \ reunion) \ \left\{ (\forall i \colon \mathbb{Z}) \ 0 \leq i < |r| \ \longrightarrow_L 0 \leq r[i]_1 < |r| \right\} \\ \end{array}
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