```
proc esSeñal (in s: seq\langle \mathbb{Z} \rangle, in prof: \mathbb{Z}, in freq: \mathbb{Z}, out result: Bool) {
           \texttt{Pre} \; \{prof > 0 \land freq > 0\}
           Post \{result = true \leftrightarrow esSe\tilde{n}alAux(s, prof, freq)\}
}
     pred esSeñalAux (s: seq\langle \mathbb{Z} \rangle, prof: \mathbb{Z}, freq: \mathbb{Z}) {
        |s| \ge 0 \land
           frecuenciaEnRango(freq) \land
           profundidadCorrecta(s) \land
           duraMasDeUnSegundo(s,freq) \land
           ninguna Muestra Supera La Profundidad(s, prof)
     }
     pred frecuenciaEnRango (freq: \mathbb{Z}) \{ freq \in [8, 32] \}
     \texttt{pred profundidadCorrecta}\ (prof \colon \mathbb{Z})\ \{prof \in [8,16,32]\}
    pred duraMasDeUnSegundo (s: seq\langle\mathbb{Z}\rangle,\,freq\colon\mathbb{Z})\;\{\frac{|s|}{(freq\cdot 1000)}>1\}
     pred ningunaMuestraSuperaLaProfundidad (s: seq\langle \mathbb{Z} \rangle, p: \mathbb{Z}) {
        (\forall i : \mathbb{Z}) \ 0 \le i < |s| \longrightarrow_L (-2)^{p-1} \le s[i] \le 2^{p-1} - 1
```