```
proc esSeñal (in s: seq⟨ℤ⟩, in prof: ℤ, in freq: ℤ, out result: Bool) {
        Pre {true}
        Post {
```
$result = frecuenciaEnRango(freq) \wedge_L$ profundidadCorrecta(s) $\wedge_L$ ningunaMuestraSuperaLaProfundidad(s, prof)

$\wedge_L$ duraMasDeUnSegundo(s, freq) }
```
}
```

pred frecuenciaEnRango (in freq: ℤ) $\{freq = 8 \vee freq = 32\}$

pred ningunaMuestraSuperaLaProfundidad (in s: $seq\langle\mathbb{Z}\rangle$, in prof: ℤ) $\{(\forall 0 : \mathbb{Z})\ i \leq 0 < |s| \longrightarrow_L (\text{-}2)^{prof-1} \leq s[i] \leq 2^{prof-1} - 1\}$

pred duraMasDeUnSegundo (in s: $seq\langle\mathbb{Z}\rangle$, in freq: ℤ) $\{|s|/(freq \cdot 1000) \geq 1\}$