proc seEnojó? (in s: señal, in umbral: $\mathbb{Z}$, in prof: $\mathbb{Z}$, in freq: $\mathbb{Z}$, out result: Bool) {

Pre $\{umbral \geq 0 \wedge_L esSeñalAux(s, prof, freq)\}$

Post {

$result = umbralEnRango(umbral, prof) \wedge_L$

$existeUnaSubsecuenciaQueSuperaUmbral(s, freq, umbral)\}$

}

pred umbralEnRango (umbral: $\mathbb{Z}$, p: $\mathbb{Z}$) $\{umbral \geq 2^{p-1} - 1\}$

pred existeUnaSubsecuenciaQueSuperaUmbral (s: señal, freq: $\mathbb{Z}$, u: $\mathbb{Z}$) {

$(\exists d, h : \mathbb{Z})\ 0 \leq d, h < |s| \ \wedge (d < h) \wedge ((d + freq * 1000 * 5) < h) \wedge_L$

$(\ (\forall i : \mathbb{Z})\ 0 \leq i < |subseq(s, d, h)| \ \longrightarrow_L |subseq(s, d, h)[i]| > umbral)\ \}$