$cumulative\_total : \text{seq } \mathbb{N} \longrightarrow \mathbb{N}$

$cumulative\_total(\langle\rangle) = 0 \wedge$
$\quad (\forall\, x : \mathbb{N} \bullet \forall\, s : \text{seq } \mathbb{N} \bullet cumulative\_total(\langle x \rangle \frown s) = x + cumulative\_total(s))$