The algoritmic pattern of summation on enumerator

Problem:

Let \mathcal{H} be an arbitrary set where an associative operation exists, with a left-hand neutral element denoted by 0. Let us call the operation addition and suppose that its operator is denoted by the + sign. Given an enumerator t enumerating elements of type E and a function $f: E \to \mathcal{H}$. Let us calculate the sum of the values that f assigns to the elements produced by t.

Specification:

$$A = (t:enor(E), s:\mathcal{H})$$

$$Pre = (t = t')$$

$$Post = (s = \sum_{e \in t'} f(e))$$

Algorithm:

	s := 0
	t.first()
$\neg t.end()$	
	s := s + f(t.current())
	t.next()