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EXTENDS Naturals, TLC

VARIABLES pick

Range(T) \triangleq \{\langle T[x], x \rangle : x \in \text{Domain } T\}
Pick(S) \triangleq \text{Choose } s \in S : \text{True}

RECURSIVE SetReduce(-, -, -)
SetReduce(Op(-, -), S, value) \triangleq

IF S = \{\} Then value
ELSE Let s \triangleq Pick(S)

IN

IF Op(s[1], value) = Op(value, s[1])
Then SetReduce(Op, S \setminus \{s\}, Op(s[1], value))
ELSE Assert(false, "error")

Sum(S) \triangleq \text{Let } \_op(a, b) \triangleq a + b
IN SetReduce(\_op, S, 0)
```