```
- MODULE AdditionalMathOperators -
                 {\bf Copyright: https://github.com/bringhurst/tlaplus/blob/master/org.lamport.tla.toolbox.uitest/farsite/AdditionalSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOperatorialSequenceOper
   6 EXTENDS Naturals, Sequences, TLC
    8 \quad PosInt \stackrel{\triangle}{=} Nat \setminus \{0\}
               CONSTANT Nil
              NilSet \stackrel{\triangle}{=} \{Nil\}
              NilOr(set) \triangleq \{Nil\} \cup set
               SetHasMinElement(set, min) \stackrel{\Delta}{=}
                            \land min \in set
                            \land (\forall el \in set : min \leq el)
18
                 SetHasMaxElement(set, max) \stackrel{\Delta}{=}
                            \land max \in set
21
                            \land (\forall el \in set : max \ge el)
22
24 MinElement(set) \stackrel{\triangle}{=} CHOOSE min \in set : (\forall el \in set : min \leq el)
               MaxElement(set) \triangleq CHOOSE \ max \in set : (\forall \ el \in set : max \geq el)
```

- **\\*** Modification History
- \* Last modified Fri Jul 06 13:15:21 CST 2018 by hengxin