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- Module Op
     Definition and operator for list operations.
 5 EXTENDS SystemModel
   Rd \stackrel{\triangle}{=} [type : \{ \text{"Rd"} \}]
    Del \stackrel{\triangle}{=} [type: \{ \text{``Del''} \}, \ pos: 1... MaxLen]  The positions (pos) are indexed from 1. 
 Ins \stackrel{\triangle}{=} [type: \{ \text{``Ins''} \}, \ pos: 1... (MaxLen + 1), \ ch: Char, \ pr: 1... ClientNum]  pr: priority
    Op \triangleq Ins \cup Del The set of all operations (now we don't consider Rd operations).
    Nop \triangleq PickNone(Op)
     Apply(op, l) \stackrel{\Delta}{=} Apply operation op on list l.
          CASE op = Nop \rightarrow l
16
             \square \quad op.type = \text{``Rd''} \rightarrow l
17
             \square \quad op.type = \text{``Del''} \rightarrow DeleteElement(l, op.pos)
18
              \  \, \Box \quad op.type = \text{``Ins''} \ \rightarrow InsertElement(l, op.ch, op.pos) \ \text{append to the end} 
19
                                                                                                  if op.pos = Len(l) + 1
20
     \* Last modified Sun Jan 13 10:06:16 CST 2019 by hengxin
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