```
--- module \mathit{Op} -
 2 EXTENDS SystemModel
4 Rd \triangleq [type: \{\text{``Rd''}\}]

5 Del \triangleq [type: \{\text{``Del''}\}, pos: 1... MaxLen] The positions (pos) are indexed from 1.

6 Ins \triangleq [type: \{\text{``Ins''}\}, pos: 1... (MaxLen + 1), ch: Char, pr: 1... ClientNum] pr: priority
     Op \stackrel{\Delta}{=} Ins \cup Del The set of all operations (now we don't consider Rd operations).
     Nop \triangleq PickNone(Op)
     Apply(op, l) \stackrel{\triangle}{=} Apply operation op on list l.
          CASE op = Nop \rightarrow l
13
             \square \quad op.type = \text{``Rd''} \rightarrow l
14
             \square op.type = "Del" \rightarrow DeleteElement(l, op.pos)
15
               \  \, \Box \quad op.type = \text{``Ins''} \ \rightarrow InsertElement(l, op.ch, op.pos) \ \text{append to the end} 
16
17
                                                                                                    if op.pos = Len(l) + 1
     \* Modification History
     * Last modified Sun Jan 13 10:00:05 CST 2019 by hengxin
     \* Created Tue Aug 28 14:58:54 CST 2018 by hengxin
```