```
- Module BufferStateSpace
```

The buffer (i.e., sequence) representation of state space used in AJupiter. This module defines generalized OT functions on operation sequences.

EXTENDS Naturals, Sequence Utils

```
RECURSIVE xFormOpOps(\_,\_,\_) Transform op against an operation sequence ops. xFormOpOps(xform(\_,\_), op, ops) \triangleq

IF ops = \langle \rangle Then \langle op \rangle Maintain and return the intermediate transformed operations. ELSE \langle op \rangle \circ xFormOpOps(xform, xform(op, Head(ops)), Tail(ops))

xFormOpsOp(xform(\_,\_), ops, op) \triangleq Transform an operation sequence ops against op. Let opX \triangleq xFormOpOps(xform, op, ops)

IN [i \in 1 ... Len(ops) \mapsto xform(ops[i], opX[i])]

xFormFull(xform(\_,\_), op, ops) \triangleq [xop \mapsto Last(xFormOpOps(xform, op, ops)), xops \mapsto xFormOpsOp(xform, ops, op)]

xFormShift(xform(\_,\_), op, ops, shift) \triangleq shift of ops xFormFull(xform, op, SubSeq(ops, shift + 1, Len(ops)))
```

^{*} Modification History

^{*} Last modified Thu Jan 17 10:30:18 CST 2019 by anonymous

^{*} Created Sat Jan 12 14:55:34 CST 2019 by anonymous