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MODULE Set
xForm(r, cop) \stackrel{\Delta}{=} Transform cop at replica r
    LET ctxDiff \stackrel{\triangle}{=} ds[r] \setminus cop.ctx calculate concurrent operations
            xFormHelper(coph, ctxDiffh, copsh) \stackrel{\triangle}{=} Return transformed xcop and
                 IF ctxDiffh = \{\} THEN [xcop \mapsto coph, xcopss \mapsto copsh] new copss
                  ELSE LET foidh \stackrel{\triangle}{=} CHOOSE oid \in ctxDiffh: the first oid in ctxDiffh
                                                 \forall id \in ctxDiffh \setminus \{oid\} : so(oid, id, serial[r])
                                fcoph \stackrel{\triangle}{=} CHOOSE fcop \in copss[r]:
                                                 fcop.oid = foidh \land fcop.ctx = coph.ctx CC
                                  xcoph \stackrel{\triangle}{=} COT(coph, fcoph) \quad xfcoph \stackrel{\triangle}{=} COT(fcoph, coph)
                                 xFormHelper(xcoph, ctxDiffh \setminus \{fcoph.oid\},\
                          IN
                                                              copsh \cup \{xcoph, xfcoph\})
            xFormHelper(cop, ctxDiff, copss[r] \cup \{cop\})
     IN
```