─────────────────── MODULE *Set* ───────────────────

$xForm(r, cop) \triangleq$ Transform *cop* at replica *r*

 LET $ctxDiff \triangleq ds[r] \setminus cop.ctx$ calculate concurrent operations

  $xFormHelper(coph, ctxDiffh, copssh) \triangleq$

   IF $ctxDiffh = \{\}$ THEN $[xcop \mapsto coph, xcopss \mapsto copssh]$

    ELSE LET $foidh \triangleq$ CHOOSE $oid \in ctxDiffh$: the first *oid* in *ctxDiffh*

         $\forall id \in ctxDiffh \setminus \{oid\} : so(oid, id, serial[r])$

      $fcoph \triangleq$ CHOOSE $fcop \in copss[r]$:

         $fcop.oid = foidh \wedge fcop.ctx = coph.ctx$

      $xcoph \triangleq COT(coph, fcoph) \quad xfcoph \triangleq COT(fcoph, coph)$

     IN $xFormHelper(xcoph, ctxDiffh \setminus \{fcoph.oid\},$

           $copssh \cup \{xcoph, xfcoph\})$

 IN $xFormHelper(cop, ctxDiff, copss[r] \cup \{cop\})$

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