```
PassReducible@k\_MD := PassReducible@k = Block[\{1, n = Length@k, p = List@@Build@k // \}] \\
     (\sharp^{\mathsf{T}} \bigcup (\mathsf{Abs@Reverse@} \sharp \mathsf{Sign} / \mathsf{@List@} \mathsf{Build} [\mathsf{MD} @ (-\mathsf{List@} \mathsf{k})])^{\mathsf{T}} [2] \&, v = \mathsf{True} \},
Do[If[(Sign@p[Mod[i+j(Range@o-1), 2n, 1]]][]{})^2 = {1},
   (*There is a (o, o-1)-pass.*) If [o = 3, Goto@1];
   Do[If[Total@Mod[e, 2] == 2, If[(Mod[e, 2n, e[1]]] // Partition[#, 2] & //
                Range @@@ # &) [ ;; , 2 ;; -2] // Mod[#, 2 n, 1] & // Union @@ # & //
        # = Abs@p[#] \cup {} &, Goto@1], {e, Select[Table[SortBy[{c, i}] \cup Abs@p[#]]}
                 p[Mod[\{i, i+j\}, 2n, 1]], Mod[\#, 2n, i] \&], \{c, 2n\}], Length@# == 4 \&]^T[
         If [j = 1, \{2, 3, 4, 1\}, ;;], \{0, \{3, 2\}\}, \{i, 2n\}, \{j, \{1, -1\}\}\};
v = False;
Label@1;
v];
```