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Flype@{} := {}; Flype@l_List := Flype@l =
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Block[{a, c, e, n = Length@l[[1]], p = List@@Build[Abs /@ l[[1]] // (#^T ∪ Reverse@#^T)^T[[2]] &,
  y = {}}, Do[c = Mod[2 i - 1 + s[[1]] Range@o, 2 n, 1];
  For[e = Max@Mod[Complement[p[[c]], c] - s[[2]] 2 l[[1, i]], 2 n, 1], e <
    Mod[s[[2]] (2 i - 1 - 2 l[[1, i]]), 2 n, 1], e++, c = c ∪ Mod[2 l[[1, i]] + s[[2]] Range@e, 2 n, 1];
  If[Sort@p[[c]] == c, (*A flype can be made with the given settings.*)
    y = Join[y, {1, Convert /@ (Mod[(a = Abs@#) + Which[Mod[s[[1]] (a - 2 i + 1), 2 n, 1] ≤ o,
      -s[[1]], Mod[s[[2]] (a - 2 l[[1, i]]), 2 n, 1] ≤ e, -s[[2]],
      a == 2 i - 1, s[[1]] o, a == 2 Abs@l[[1, i]], s[[2]] e, True, 0],
      2 n, 1] Sign@# & // Map[#, Build /@ l, {3}] &) }^T]]], {i, n},
    {s, {{1, 1}, {1, -1}, {-1, 1}}}, {o, 2, Mod[s[[1]] (2 l[[1, i]] - 2 i + 1), 2 n, 1] - 1}];
  KnotSort /@ If[Dimensions@y == {2}, y, (y ∪ {})]];
```