```
ReidemeisterThree@k gives all the knots that can be obtained by applying one
   third Reidemeister move to the knot k, which is given in modified DT form.
ReidemeisterThree@k MDT :=
  ReidemeisterThree@k = Block[{b, f, n = Length@k,
      p = List@@Build@k //
         (#^{\mathsf{T}} \bigcup (Abs@Reverse@#Sign@#)^{\mathsf{T}}]^{\mathsf{T}}
            2] &, v, y = {}},
     b = Abs@p // #[Mod[#[1]] + {1, -1}, 2n, 1]] &;
     Do[f = Mod[Abs@p[i]] + \{1, -1\}, 2n, 1]
         // If[OddQ@i, Abs@p[#], #] &;
      Do[If[\{c, i-1, i\}]]
          // Total[Sign@p[#]]^2 = 1 \bigwedge
             MemberQ[(Abs@p[#]] U #) [2;;3], i] &,
         (*The third Reidemeister move can be
          made with the given settings.*)
         v = p[{Abs@p[c], Abs@p[i - Mod[i, 2]]},
              i - Mod[i + 1, 2]}]/2;
         If DuplicateFreeQ@v,
          AppendTo[y, k/.
```

 $(v[#1]] \rightarrow -Abs@v[#2] Sign@v[#3] &@@@ {{1, 2, 3}, {2, 3, 1}, {3, 1, 2}})]]],$

 ${c,b \cap f}$; b = f, {i, 2, 2n};

 $KnotSort[Minimal/@y \cup {}]];$