```
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 //
          (\sharp^{\mathsf{T}}[] (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 \& \&
             MemberQ[(Abs@p[#]][]#)[2;;3],i]&,
         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[]{}]];