```
PassReducible@k gives True if the knot k, which is given in modified DT
   form, is reducible with a 2,1-pass move or a 3,2-pass move, and False otherwise.
```

```
PassReducible@k MDT := PassReducible@k =
   Block[{1, n = Length@k, p = List@@Build@k}]
```

```
// (#<sup>T</sup> U (Abs@Reverse@#
               Sign /@List@@Build[MDT@@ (-List@@k)])^{\dagger}[2] &, v = True},
Do[If[(Sign@p[Mod[i+j(Range@o-1), 2n, 1]]] \cup \{\})^2 = \{1\},
```

```
If[o == 3, Goto@1];
Do[If[Total@Mod[e, 2] = 2, If[(Mod[e, 2n, e[1]])]]
            // Partition[#, 2] &
```

```
// Range @@@ # &) [ ;; , 2 ;; -2]
```

```
// Mod[#, 2n, 1] &
// Union@@# &
```

```
// # = Abs@p[[#]] \cup {} &, Goto@1],
```

```
\{e, Select[Table[SortBy[\{c, i\} \cup Abs@p[Mod[\{i, i+j\}, 2n, 1]]], \}\}\}
```

```
Mod[#, 2n, i] &], {c, 2n}],
```

Length@# ==  $4 \& [[If[j == 1, \{2, 3, 4, 1\}, ;;]]^{T}]]$ ,

 $\{0, \{3, 2\}\}, \{i, 2n\}, \{j, \{1, -1\}\}\};$ 

v = False; Label@1];