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CreateGraph@n gives a graph with minimal irreducible knot diagrams with n
   crossings as vertices and edges connecting each pair of knot diagrams
   that are equivalent under one 2-pass, flype, or third Reidemeister move.
CreateGraph[] gives a graph with minimal irreducible knot diagrams with up to
   10 crossings as vertices and edges connecting each pair of knot diagrams
   that are equivalent under one 2-pass, flype, or third Reidemeister move.
CreateGraph@n Integer := CreateGraph@n =
    If[n === Null, Join@@ Array[CreateGraph, 11, 0],
     If[n === 0, {\{MDT[], MDT[], "N/A"\}},
      Block
        {r, y = Join[Reverse@KnotSort@#[;; 2], {#[3]}] &
              /@ (Join[#, {"Flype"}] &
                  /@ Union @@
                    (Flype@KnotAssociation[n]@# & /@
                      CandidateKnots@n) | |
                Flatten[Table[{{k, #,
                         "Reidemeister 3"} & /@
                      ReidemeisterThree@k,
                     {k, #, "2-Pass"} & /@TwoPass@k},
                   \{k, ValidKnots@n\}], 2]) \cup \{\}\},
        r = Join @@ Select[ConnectedComponents@
             Graph[#[1]] \leftrightarrow #[2] & /@y],
            Or @@ PassReducible /@# &];
        Sort[
```

Select[y, ¬ MemberQ[r, #[1]] &], GraphSort]]]];