

```

CreateGraph[] := Join @@ Array[CreateGraph, 11, 0];

CreateGraph@0 := {{MD[], MD[], "N/A"}};

CreateGraph@n___Integer := CreateGraph@n = 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]} ∪ {}},
  r = Join @@ Select[ConnectedComponents@Graph[#[[1]] ↔ #[[2]] & /@ y],
    Or @@ PassReducible /@ # &];
  Sort[Select[y, ¬ MemberQ[r, #[[1]]] &], GraphSort]];

```