

```

ValidKnots@0 := {MD[]}; ValidKnots@n_Integer :=

ValidKnots@n = (Select[Join@@Table[MD@@(cList@@#) & /@CandidateKnots@n, {c,
    Tuples[{1, -1}, n][[;; 2n-1]]}, ~PassReducible@# & Minimal@# == # &] // KnotSort);

```