ValidKnots@*n* gives the sorted list of all non−trivially
   reducible planar minimal knot diagrams with *n* crossings.

```
ValidKnots@n_Integer :=
  ValidKnots@n = If[n == 0, {MDT[]},
    Select[
      Join @@ Table[MDT @@ (c List @@ #) & /@
        CandidateKnots@n,
        {c, Tuples[{1, -1}, n][[ ;; 2^(n-1)]]}],
      ¬ PassReducible@# && Minimal@# == # &]
     // KnotSort];
```