CandidateKnots@*n* gives the sorted list of all irreducible planar minimal alternating knot diagrams with *n* crossings.

```
CandidateKnots@n_Integer := CandidateKnots@n =
  If[n == 0, {MDT[]}, Block[{k, l, p, y = {}},
    For[p = 0, p < n!, p++, k = MDT[];
     Do[Delete[Range@n, {List @@ k}ᵀ]
        [[⌊Mod[p, (n - i + 1)!] / (n - i)!⌋ + 1]]
       // AppendTo[k, #] &;
      If[2 k[[1]] - 1 > (Abs[2 i - 1 - 2 k[[i]]]
          // Min[#, 2 n - #] &), p += (n - i)! - 1;
       Goto@l];
      If[k[[-1]] ≤ i, Do[List @@ k[[j ;;]] ⋃ {}
         // If[# == Range[j, i] || # == Range[j, i] - 1,
           p += (n - i)! - 1;
           Goto@l] &, {j, If[i == n && n > 1, 2, 1], i}]],
      {i, n}];
     If[PlanarGraphQ@KnotGraph@k && k === Minimal@k,
      AppendTo[y, k]];
     Label@l];
    y]];
```