```
CandidateKnots@0 := {MD[]}; CandidateKnots@n_Integer :=
 CandidateKnots@n = Block[{k, l, p, y = {}}, For[p = 0, p < n!, p++, k = {};
    Do[Complement[Range@n, k][[⌊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 - #] &),
      (*The sequence so far will not be minimal.*)p += (n - i)! - 1;
      Goto@l];
     If[k[[-1]] ≤ i, Do[k[[j ;;]] ⋃ {} // If[# == Range[j, i] ⋁ # == Range[j, i] - 1,
          (*The sequence so far will not be prime.*)p += (n - i)! - 1;
          Goto@l] &, {j, If[i == n ⋀ n > 1, 2, 1], i}]], {i, n}];
    MD @@ k // If[PlanarGraphQ@KnotGraph@# ⋀ # === Minimal@#, AppendTo[y, #]] &;
    Label@l];
   y];
```