```mathematica
Poly[n_] := {Cos[#], Sin[#]} & /@ Range[0, 2 π, (2 π)/n]

Loop[ptL_List] :=
 If[Length[ptL] > 1, {Thickness[0.02], Hue[2], Line[Append[ptL, First[ptL]]]},
  {Thickness[0.02], Hue[2], Circle[First[ptL], .1]}]

BellRule1[n_] = {S__} → {S, {n}};
BellRule2[n_] = {b___, {S__}, a___} → {b, {S, n}, a};

BellLists[1] = {{{1}}};

BellLists[n_Integer?Positive] :=
 Flatten[Map[ReplaceList[#, {BellRule1[n], BellRule2[n]}] &, BellLists[n - 1]], 1]

BellDiagram[L_List] :=
 Module[{thisPoly = Poly[Max[L]], frm}, frm = {Hue[1, 1, 0], Line[2 thisPoly]};
  Graphics[{frm, Map[Loop, Map[thisPoly[[#]] &, L]]}, ImageSize → {30, 30}]]

BellDiagram[i_, n_] := BellDiagram[BellLists[n][[i]]]

(* Just to clear the variables only use if you need to *)
(* recompilethe above group *)
ClearAll["Global`*"]

funcStirlingiii[list_] := (
  Table[BellDiagram[Part[list, i]], {i, 1, Length[list]}]
 )

list3k3d = {{{1}, {2}, {3}}, {{1}, {2}, {3}, {4}},
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funcStirlingiii[list3k3d]