ln[=]= a12 = Graph[{16 \leftrightarrow 68, 44 \leftrightarrow 68, 16 \leftrightarrow 44, 59 \leftrightarrow 79, 16 \leftrightarrow 79, 16 \leftrightarrow 59, 80 \leftrightarrow 90, 79 \leftrightarrow 90, r

 $16 \leftrightarrow 90, 88 \leftrightarrow 90, 79 \leftrightarrow 80, 16 \leftrightarrow 80, 80 \leftrightarrow 88, 79 \leftrightarrow 88, 16 \leftrightarrow 88, 16 \leftrightarrow 50,$ $10 \leftrightarrow 50, 50 \leftrightarrow 115, 10 \leftrightarrow 16, 16 \leftrightarrow 115, 10 \leftrightarrow 115, 106 \leftrightarrow 109, 20 \leftrightarrow 79, 10 \leftrightarrow 20,$ $16 \leftrightarrow 20, 16 \leftrightarrow 106, 20 \leftrightarrow 59, 10 \leftrightarrow 33, 33 \leftrightarrow 115, 16 \leftrightarrow 75, 20 \leftrightarrow 80, 14 \leftrightarrow 117,$ $14 \leftrightarrow 33$, $14 \leftrightarrow 103$, $14 \leftrightarrow 20$, $33 \leftrightarrow 117$, $103 \leftrightarrow 117$, $20 \leftrightarrow 117$, $33 \leftrightarrow 103$, $20 \leftrightarrow 33$, $20 \leftrightarrow 103, 48 \leftrightarrow 110, 23 \leftrightarrow 106, 79 \leftrightarrow 117, 16 \leftrightarrow 117, 10 \leftrightarrow 75, 75 \leftrightarrow 115, 33 \leftrightarrow 80,$ $33 \leftrightarrow 79, 16 \leftrightarrow 33, 10 \leftrightarrow 79, 101 \leftrightarrow 111, 16 \leftrightarrow 37, 6 \leftrightarrow 16, 59 \leftrightarrow 80, 59 \leftrightarrow 66,$ $66 \leftrightarrow 80$, $10 \leftrightarrow 59$, $33 \leftrightarrow 59$, $63 \leftrightarrow 111$, $10 \leftrightarrow 63$, $10 \leftrightarrow 111$, $17 \leftrightarrow 36$, $8 \leftrightarrow 83$, $8 \leftrightarrow 33, 8 \leftrightarrow 16, 33 \leftrightarrow 83, 16 \leftrightarrow 83, 10 \leftrightarrow 61, 33 \leftrightarrow 61, 56 \leftrightarrow 93, 56 \leftrightarrow 70, 56 \leftrightarrow 68,$ $70 \leftrightarrow 93, 68 \leftrightarrow 93, 68 \leftrightarrow 70, 60 \leftrightarrow 74, 104 \leftrightarrow 115, 23 \leftrightarrow 74, 104 \leftrightarrow 109, 16 \leftrightarrow 64,$ $20 \leftrightarrow 71$, $20 \leftrightarrow 100$, $71 \leftrightarrow 79$, $79 \leftrightarrow 100$, $71 \leftrightarrow 80$, $80 \leftrightarrow 100$, $71 \leftrightarrow 100$, $21 \leftrightarrow 90$, $21 \leftrightarrow 80, 74 \leftrightarrow 97, 8 \leftrightarrow 9, 36 \leftrightarrow 106, 32 \leftrightarrow 52, 19 \leftrightarrow 52, 20 \leftrightarrow 107, 14 \leftrightarrow 107,$ $33 \leftrightarrow 107, 42 \leftrightarrow 104, 80 \leftrightarrow 93, 29 \leftrightarrow 56, 56 \leftrightarrow 115, 29 \leftrightarrow 68, 29 \leftrightarrow 115, 68 \leftrightarrow 115,$ $19 \leftrightarrow 74$, $16 \leftrightarrow 17$, $12 \leftrightarrow 78$, $77 \leftrightarrow 78$, $10 \leftrightarrow 78$, $12 \leftrightarrow 77$, $10 \leftrightarrow 12$, $10 \leftrightarrow 77$, $29 \leftrightarrow 42$, $29 \leftrightarrow 86, 29 \leftrightarrow 82, 42 \leftrightarrow 86, 42 \leftrightarrow 82, 82 \leftrightarrow 86, 32 \leftrightarrow 50, 43 \leftrightarrow 74, 73 \leftrightarrow 74,$ $43 \leftrightarrow 73$, $21 \leftrightarrow 100$, $54 \leftrightarrow 100$, $21 \leftrightarrow 54$, $12 \leftrightarrow 104$, $30 \leftrightarrow 104$, $84 \leftrightarrow 104$, $97 \leftrightarrow 104$, $12 \leftrightarrow 30$, $12 \leftrightarrow 84$, $12 \leftrightarrow 97$, $30 \leftrightarrow 84$, $30 \leftrightarrow 97$, $84 \leftrightarrow 97$, $8 \leftrightarrow 80$, $8 \leftrightarrow 90$, $42 \leftrightarrow 48$, $18 \leftrightarrow 42, 42 \leftrightarrow 107, 18 \leftrightarrow 48, 48 \leftrightarrow 107, 18 \leftrightarrow 107, 21 \leftrightarrow 95, 80 \leftrightarrow 95, 28 \leftrightarrow 72,$ $28 \leftrightarrow 104, 72 \leftrightarrow 104, 58 \leftrightarrow 107, 16 \leftrightarrow 31, 86 \leftrightarrow 115, 35 \leftrightarrow 78, 72 \leftrightarrow 95, 49 \leftrightarrow 95,$ $49 \leftrightarrow 72$, $12 \leftrightarrow 73$, $73 \leftrightarrow 84$, $73 \leftrightarrow 104$, $30 \leftrightarrow 73$, $28 \leftrightarrow 89$, $32 \leftrightarrow 43$, $43 \leftrightarrow 52$, $72 \leftrightarrow 97, 72 \leftrightarrow 115, 97 \leftrightarrow 115, 16 \leftrightarrow 86, 16 \leftrightarrow 42, 42 \leftrightarrow 115, 71 \leftrightarrow 90, 107 \leftrightarrow 117,$ $16 \leftrightarrow 107, \ 36 \leftrightarrow 113, \ 83 \leftrightarrow 113, \ 36 \leftrightarrow 83, \ 16 \leftrightarrow 73, \ 25 \leftrightarrow 73, \ 16 \leftrightarrow 74, \ 25 \leftrightarrow 74,$ $16 \leftrightarrow 25, 78 \leftrightarrow 104, 78 \leftrightarrow 97, 78 \leftrightarrow 106, 104 \leftrightarrow 106, 97 \leftrightarrow 106, 52 \leftrightarrow 74, 52 \leftrightarrow 73,$ $10 \leftrightarrow 36, 10 \leftrightarrow 113, 10 \leftrightarrow 31, 31 \leftrightarrow 36, 31 \leftrightarrow 113, 42 \leftrightarrow 103, 79 \leftrightarrow 103, 42 \leftrightarrow 79,$ $87 \leftrightarrow 106, 78 \leftrightarrow 87, 26 \leftrightarrow 46, 26 \leftrightarrow 115, 46 \leftrightarrow 115, 4 \leftrightarrow 18, 4 \leftrightarrow 20, 4 \leftrightarrow 21,$ $4\leftrightarrow54$, $4\leftrightarrow79$, $4\leftrightarrow80$, $4\leftrightarrow100$, $18\leftrightarrow20$, $18\leftrightarrow21$, $18\leftrightarrow54$, $18\leftrightarrow79$, $18\leftrightarrow80$, $18 \leftrightarrow 100, 20 \leftrightarrow 21, 20 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\leftrightarrow 73$, $6 \leftrightarrow 17$, $43 \leftrightarrow 97$, $1 \leftrightarrow 51$, $21 \leftrightarrow 71$, $54 \leftrightarrow 71$, $18 \leftrightarrow 81, 81 \leftrightarrow 107, 11 \leftrightarrow 22, 22 \leftrightarrow 51, 39 \leftrightarrow 84, 26 \leftrightarrow 84, 6 \leftrightarrow 21, 6 \leftrightarrow 54, 97 \leftrightarrow 116,$ $5 \leftrightarrow 116, 5 \leftrightarrow 97, 113 \leftrightarrow 115, 86 \leftrightarrow 113, 42 \leftrightarrow 113, 72 \leftrightarrow 90, 36 \leftrightarrow 97, 36 \leftrightarrow 84,$ $6\leftrightarrow90,\ 85\leftrightarrow98,\ 76\leftrightarrow98,\ 85\leftrightarrow95,\ 76\leftrightarrow95,\ 76\leftrightarrow85,\ 8\leftrightarrow100,\ 14\leftrightarrow81,\ 6\leftrightarrow81,$ $6 \leftrightarrow 14$, $38 \leftrightarrow 58$, $17 \leftrightarrow 58$, $58 \leftrightarrow 98$, $17 \leftrightarrow 98$, $17 \leftrightarrow 107$, $98 \leftrightarrow 107$, $92 \leftrightarrow 107$, $15 \leftrightarrow 92$, $15 \leftrightarrow 107$, $36 \leftrightarrow 93$, $42 \leftrightarrow 93$, $36 \leftrightarrow 42$, $20 \leftrightarrow 29$, $20 \leftrightarrow 68$, $16 \leftrightarrow 93$, $16 \leftrightarrow 36$, $41 \leftrightarrow 115$, $41 \leftrightarrow 86$, $67 \leftrightarrow 79$, $69 \leftrightarrow 99$, $41 \leftrightarrow 78$, $59 \leftrightarrow 71$, $21 \leftrightarrow 72$, $54 \leftrightarrow 90$, $72 \leftrightarrow 79$, $54 \leftrightarrow 72$, $84 \leftrightarrow 102$, $1 \leftrightarrow 73$, $80 \leftrightarrow 98$, $71 \leftrightarrow 81$, $21 \leftrightarrow 24$, $3 \leftrightarrow 21$, $24 \leftrightarrow 54, \ 3 \leftrightarrow 54, \ 3 \leftrightarrow 24, \ 62 \leftrightarrow 94, \ 26 \leftrightarrow 97, \ 42 \leftrightarrow 65, \ 25 \leftrightarrow 43, \ 32 \leftrightarrow 73, \ 73 \leftrightarrow 97,$ $52 \leftrightarrow 84, 12 \leftrightarrow 52, 52 \leftrightarrow 97, 32 \leftrightarrow 84, 12 \leftrightarrow 32, 32 \leftrightarrow 97, 43 \leftrightarrow 84, 12 \leftrightarrow 43,$ $81 \leftrightarrow 92$, $12 \leftrightarrow 47$, $12 \leftrightarrow 106$, $47 \leftrightarrow 106$, $16 \leftrightarrow 51$, $41 \leftrightarrow 42$, $6 \leftrightarrow 45$, $45 \leftrightarrow 54$, $21 \leftrightarrow 45, \ 8 \leftrightarrow 81, \ 8 \leftrightarrow 69, \ 69 \leftrightarrow 81, \ 27 \leftrightarrow 69, \ 69 \leftrightarrow 76, \ 27 \leftrightarrow 76, \ 22 \leftrightarrow 77, \ 34 \leftrightarrow 80,$ $112 \leftrightarrow 115, 37 \leftrightarrow 115, 37 \leftrightarrow 112, 28 \leftrightarrow 58, 27 \leftrightarrow 58, 27 \leftrightarrow 28, 16 \leftrightarrow 99, 14 \leftrightarrow 21,$ $14 \leftrightarrow 54, 14 \leftrightarrow 71, 14 \leftrightarrow 80, 14 \leftrightarrow 90, 14 \leftrightarrow 100, 90 \leftrightarrow 100, 58 \leftrightarrow 72, 47 \leftrightarrow 51,$ $51 \leftrightarrow 55, 51 \leftrightarrow 112, 47 \leftrightarrow 55, 47 \leftrightarrow 112, 55 \leftrightarrow 112, 1 \leftrightarrow 40, 45 \leftrightarrow 67, 3 \leftrightarrow 20,$

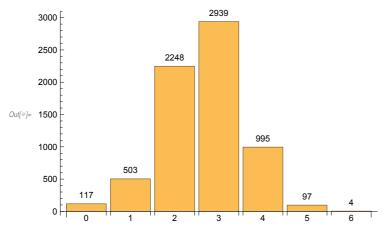
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15 \leftrightarrow 69, 81 \leftrightarrow 114, 92 \leftrightarrow 114, 16 \leftrightarrow 100, 28 \leftrightarrow 39, 39 \leftrightarrow 85, 39 \leftrightarrow 76, 38 \leftrightarrow 39,
28 \leftrightarrow 85, 28 \leftrightarrow 76, 28 \leftrightarrow 38, 38 \leftrightarrow 85, 38 \leftrightarrow 76, 109 \leftrightarrow 112, 47 \leftrightarrow 109, 78 \leftrightarrow 112,
47 \leftrightarrow 78, 41 \leftrightarrow 55, 41 \leftrightarrow 96, 55 \leftrightarrow 96, 24 \leftrightarrow 90, 24 \leftrightarrow 100, 24 \leftrightarrow 71, 25 \leftrightarrow 32,
32 \leftrightarrow 60, 8 \leftrightarrow 109, 16 \leftrightarrow 109, 65 \leftrightarrow 114, 1 \leftrightarrow 58, 55 \leftrightarrow 58, 1 \leftrightarrow 38, 38 \leftrightarrow 55, 1 \leftrightarrow 55,
34 \leftrightarrow 97, 34 \leftrightarrow 81, 34 \leftrightarrow 99, 14 \leftrightarrow 34, 17 \leftrightarrow 34, 34 \leftrightarrow 90, 81 \leftrightarrow 97, 97 \leftrightarrow 99, 14 \leftrightarrow 97,
17 \leftrightarrow 97, 90 \leftrightarrow 97, 81 \leftrightarrow 99, 17 \leftrightarrow 81, 81 \leftrightarrow 90, 14 \leftrightarrow 99, 17 \leftrightarrow 99, 90 \leftrightarrow 99, 14 \leftrightarrow 17,
17 \leftrightarrow 90, 32 \leftrightarrow 51, 11 \leftrightarrow 32, 16 \leftrightarrow 35, 76 \leftrightarrow 107, 27 \leftrightarrow 39, 93 \leftrightarrow 102, 53 \leftrightarrow 93,
53 \leftrightarrow 102, 16 \leftrightarrow 41, 30 \leftrightarrow 51, 12 \leftrightarrow 51, 16 \leftrightarrow 30, 12 \leftrightarrow 16, 32 \leftrightarrow 106, 32 \leftrightarrow 104,
26 \leftrightarrow 58, 58 \leftrightarrow 97, 54 \leftrightarrow 62, 45 \leftrightarrow 62, 24 \leftrightarrow 45, 45 \leftrightarrow 71, 45 \leftrightarrow 100, 24 \leftrightarrow 62,
62 \leftrightarrow 71, 62 \leftrightarrow 100, 15 \leftrightarrow 65, 54 \leftrightarrow 98, 21 \leftrightarrow 98, 24 \leftrightarrow 94, 45 \leftrightarrow 55, 44 \leftrightarrow 55,
7 \leftrightarrow 55, 44 \leftrightarrow 45, 7 \leftrightarrow 45, 7 \leftrightarrow 44, 44 \leftrightarrow 62, 44 \leftrightarrow 71, 79 \leftrightarrow 92, 79 \leftrightarrow 81, 22 \leftrightarrow 115,
77 \leftrightarrow 115, 22 \leftrightarrow 112, 77 \leftrightarrow 112, 65 \leftrightarrow 108, 38 \leftrightarrow 108, 38 \leftrightarrow 65, 1 \leftrightarrow 7, 15 \leftrightarrow 100,
38 \leftrightarrow 98, 57 \leftrightarrow 84, 57 \leftrightarrow 104, 57 \leftrightarrow 106, 81 \leftrightarrow 105, 27 \leftrightarrow 91, 27 \leftrightarrow 55, 55 \leftrightarrow 91,
71 \leftrightarrow 108, 2 \leftrightarrow 105, 92 \leftrightarrow 105, 105 \leftrightarrow 107, 15 \leftrightarrow 105, 2 \leftrightarrow 92, 2 \leftrightarrow 107, 2 \leftrightarrow 15,
69 \leftrightarrow 80, 80 \leftrightarrow 103, 69 \leftrightarrow 103, 14 \leftrightarrow 69, 3 \leftrightarrow 80, 3 \leftrightarrow 71, 3 \leftrightarrow 45, 45 \leftrightarrow 80\};
```

In[@]:=

BarChart[Table[If[i > 0, Count[Flatten[GraphDistanceMatrix[a12]], i] / 2, [столбико··· | табл···] условный·· | встре··· | уплостить | матрица расстояний на графе

Count[Flatten[GraphDistanceMatrix[a12]], i]], {i, 0, 6}], встре... уплостить матрица расстояний на графе

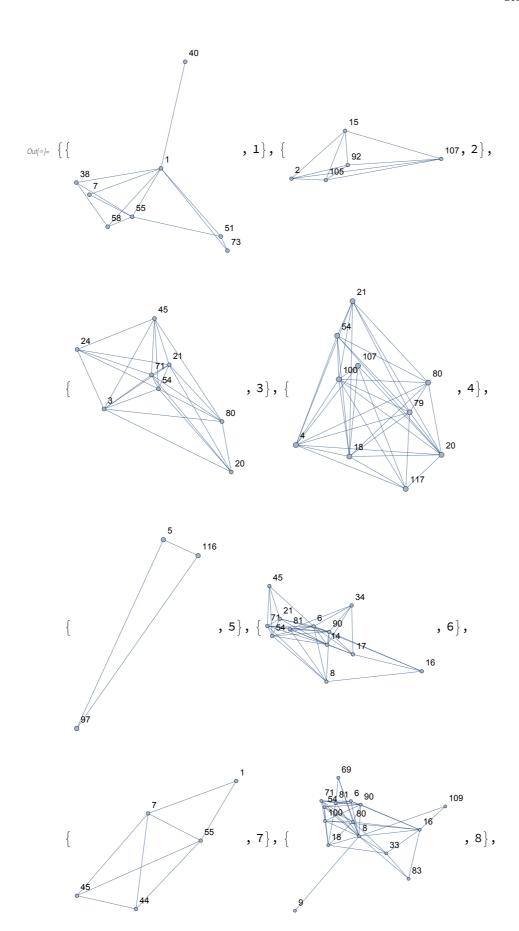
LabelingFunction → Above, ChartLabels → Table[i, {i, 0, 6}]]

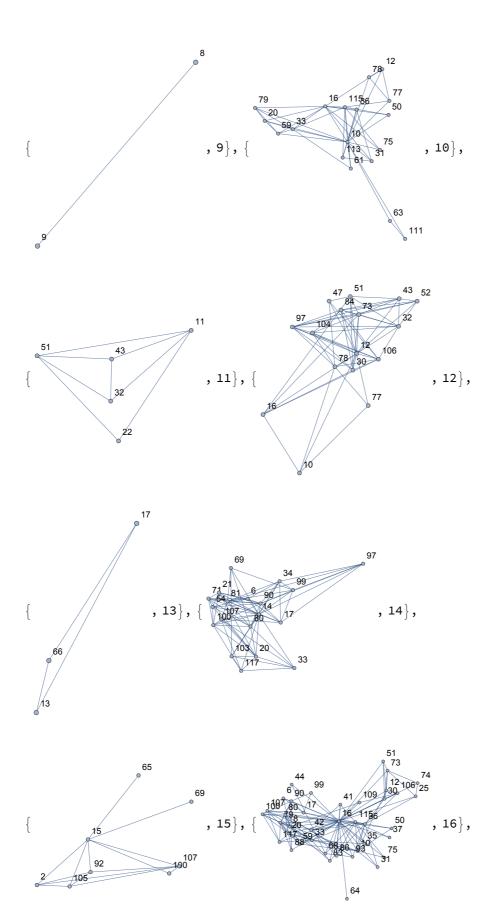


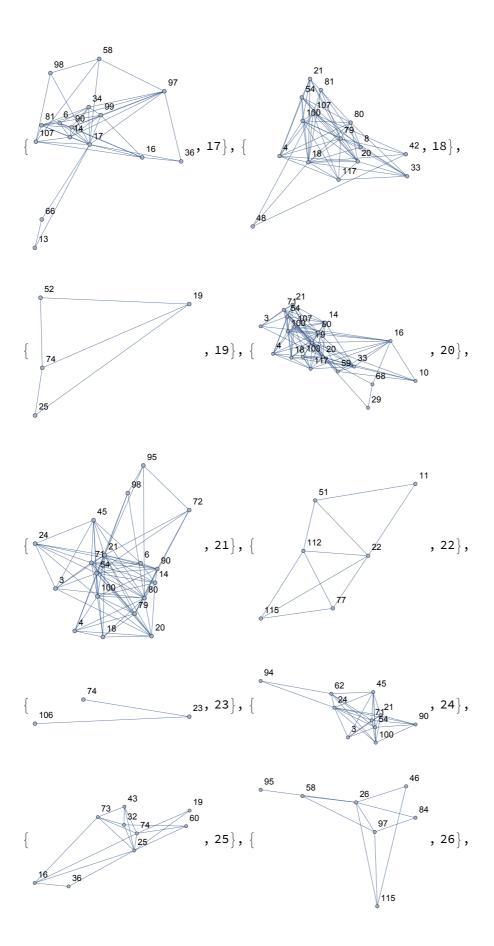
 $I_{n[e]}$: Transpose Table $\left[\left\{C! / \left(2! * \left(C-2\right)!\right), C\right\}, \left\{C, 2, 8\right\}\right]\right] / / Matrix Form$

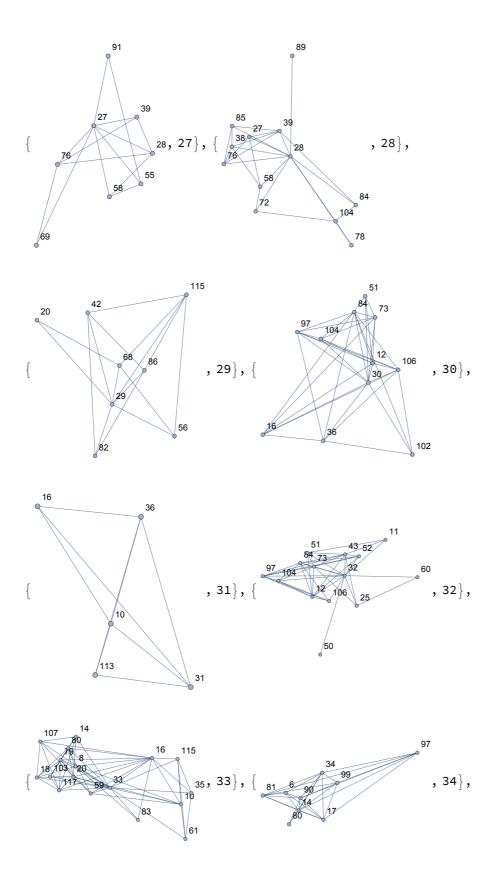
3 6 10 15 21 28 3

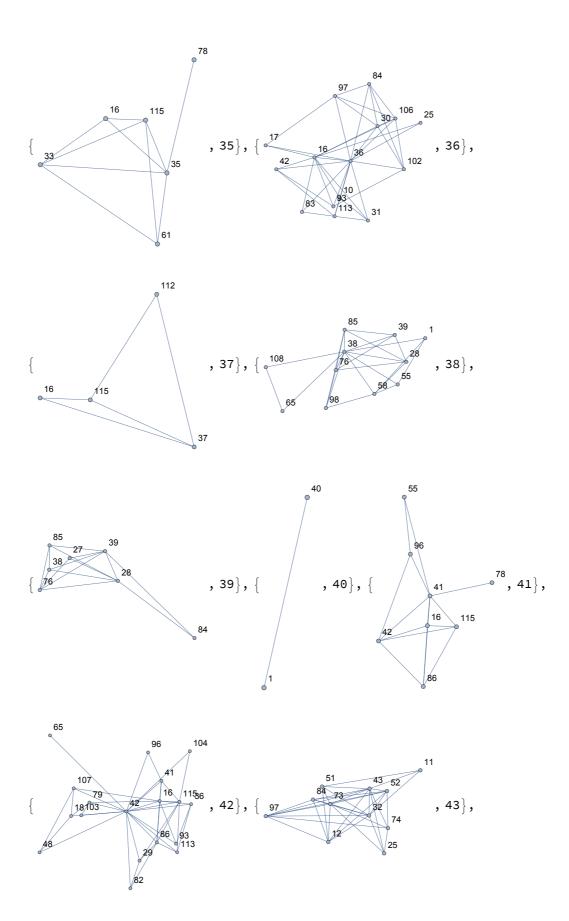
Implies Table[{NeighborhoodGraph[a12, i, VertexLabels → Automatic], i}, {i, 1, 117}] [метки для вершин [автоматический таблиц. граф окрестности

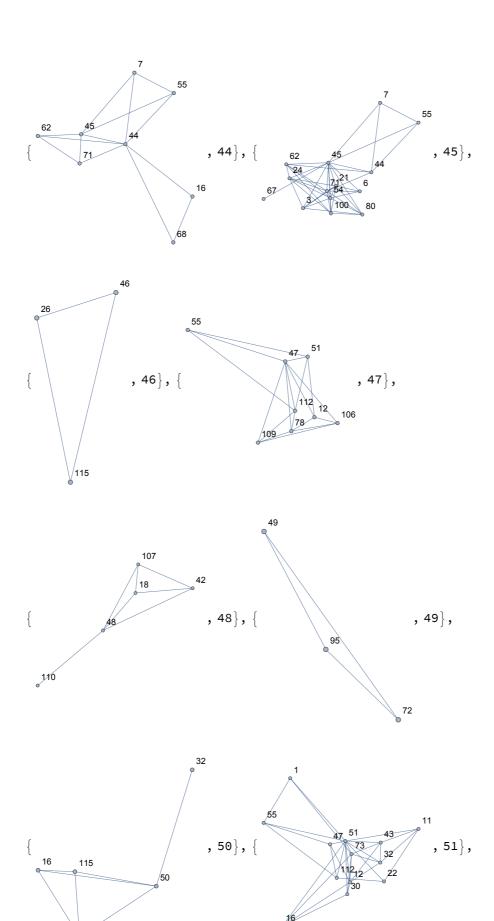


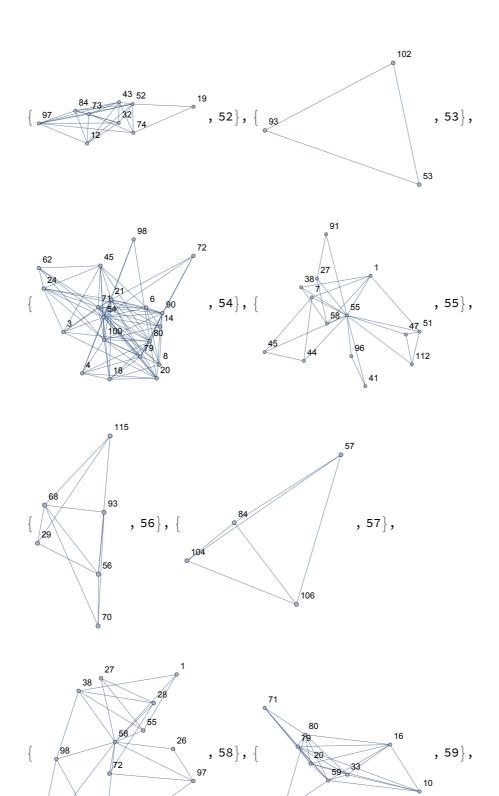




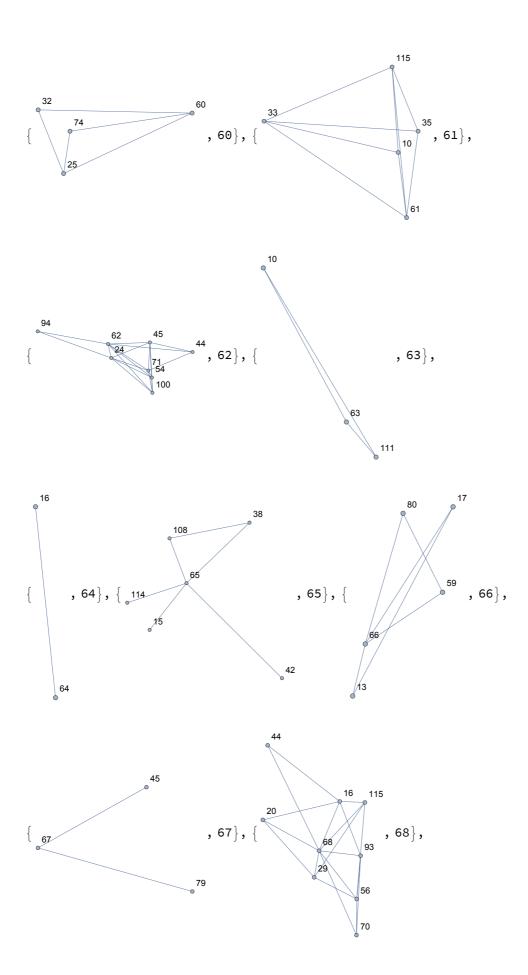


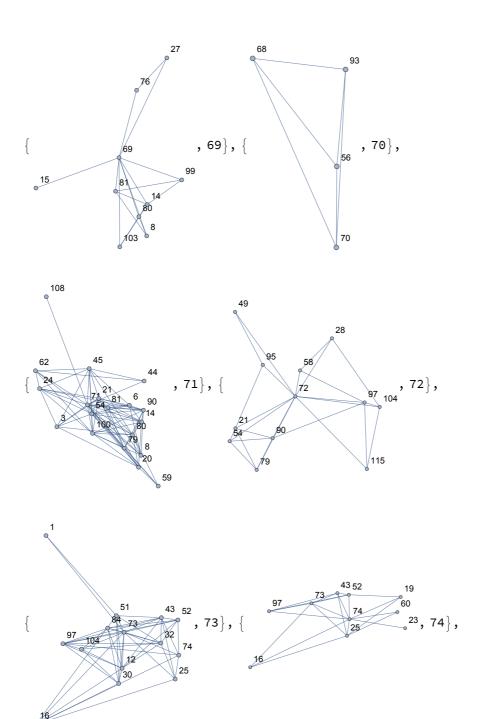


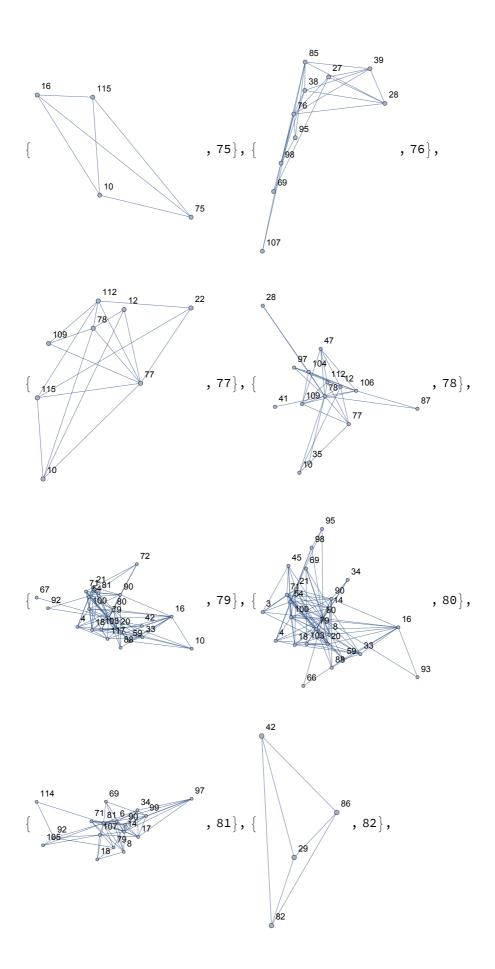


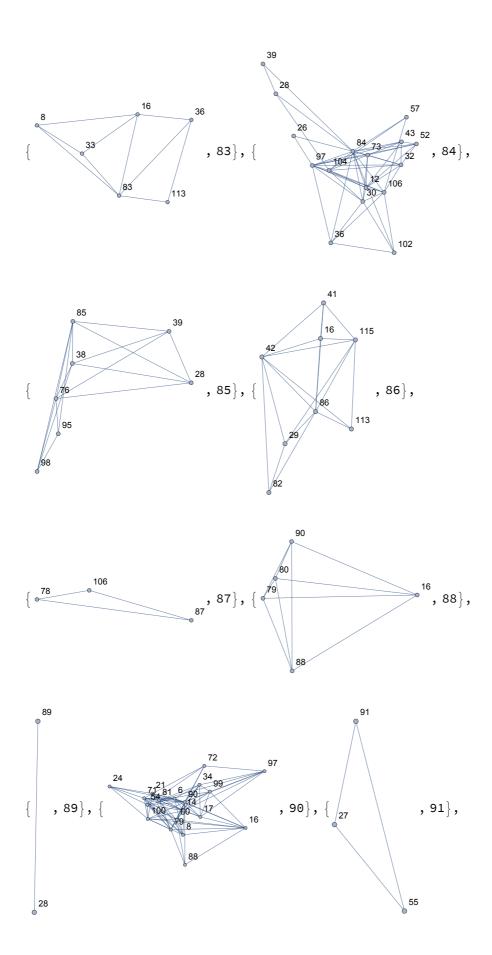


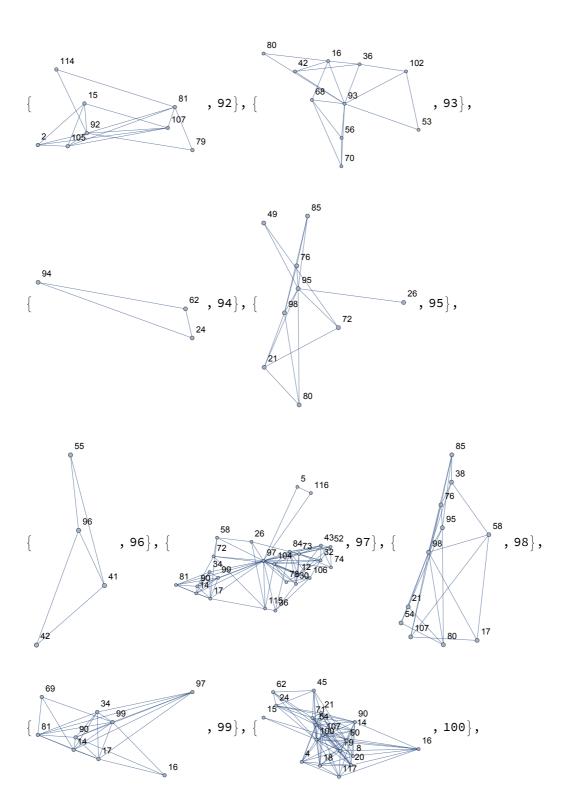
107

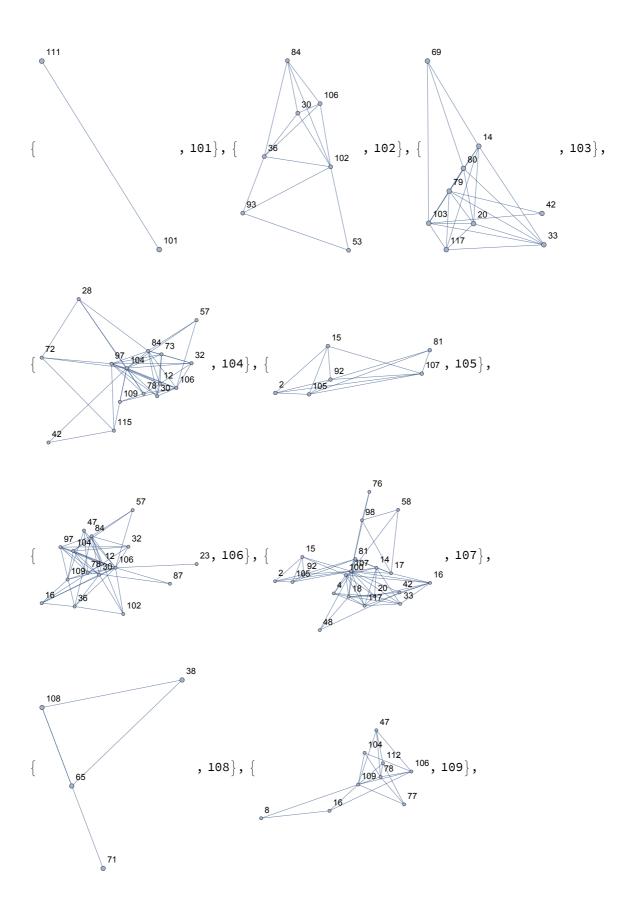


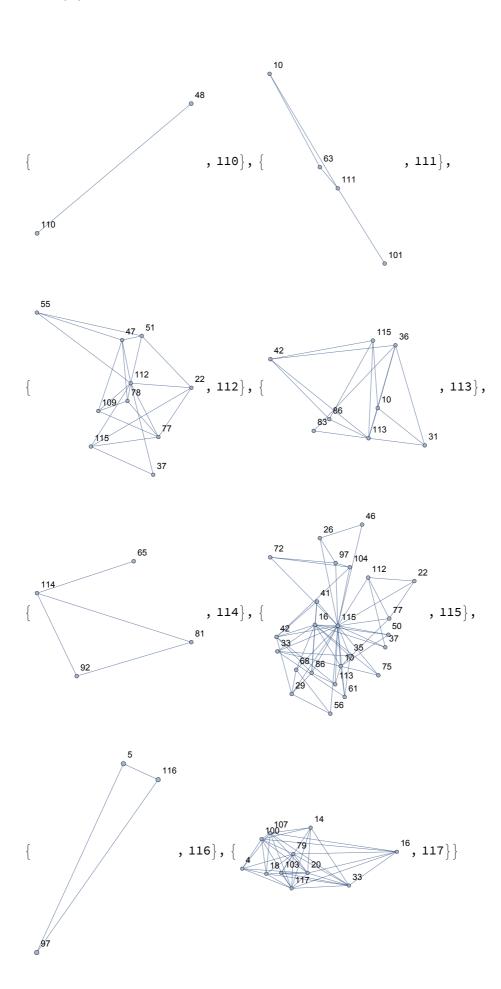




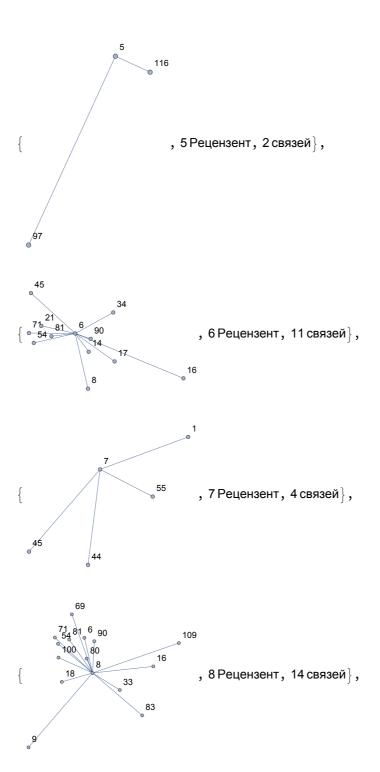


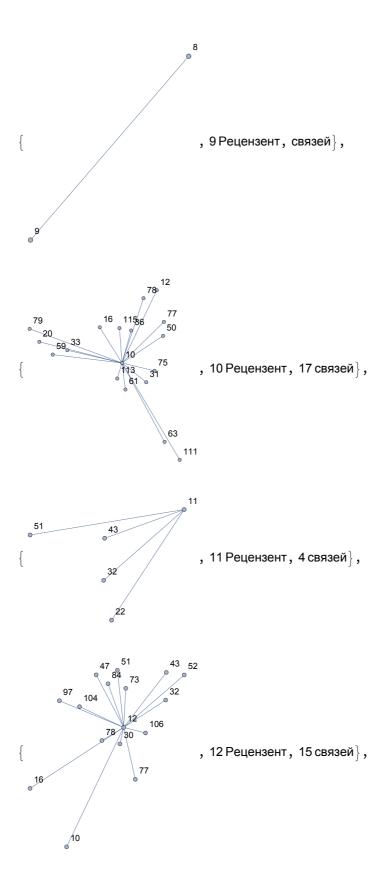


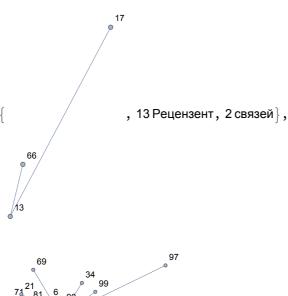


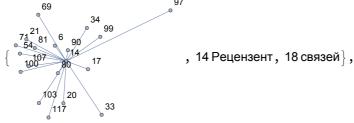


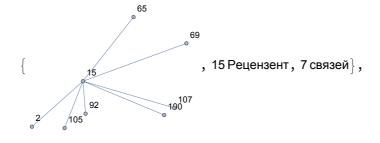
```
Ī
log_{i} = Table[{FindSpanningTree[NeighborhoodGraph[a12, i, VertexLabels <math>\rightarrow Automatic]]},
   Lметки для вершин Lавтоматический
      Text[Рецензент i], Text[
     текст
       СВЯЗЕЙ EdgeCount[FindSpanningTree[NeighborhoodGraph[a12, i]]]]}, {i, 1, 117}]
             Out[•]= { {
                            , Рецензент, 7 связей },
              15
                           107, 2 Рецензент, 4 связей },
              92
           105
                             , 3 Рецензент, 7 связей },
                          80
                           20
            107
                            , 4 Рецензент, 9 связей },
                          20
                    117
```

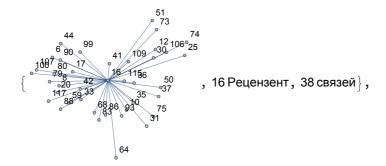


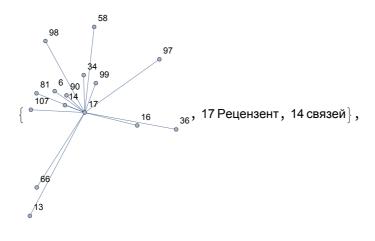


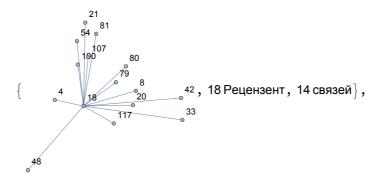


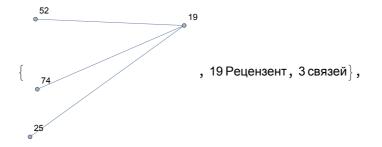


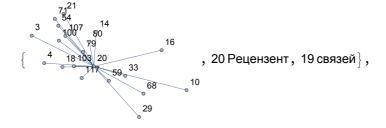


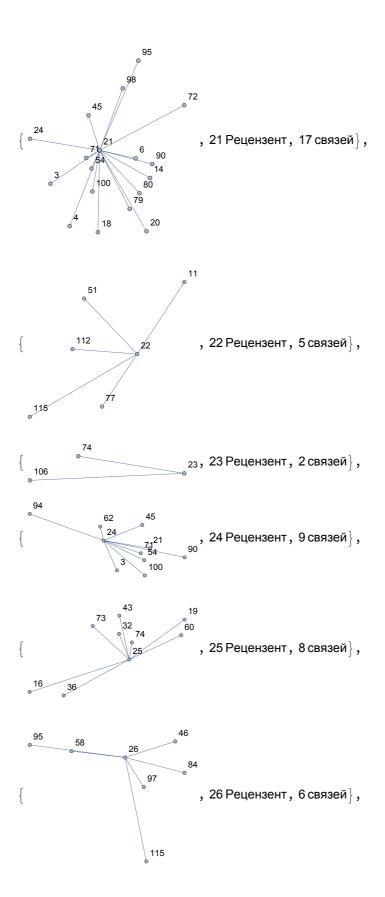


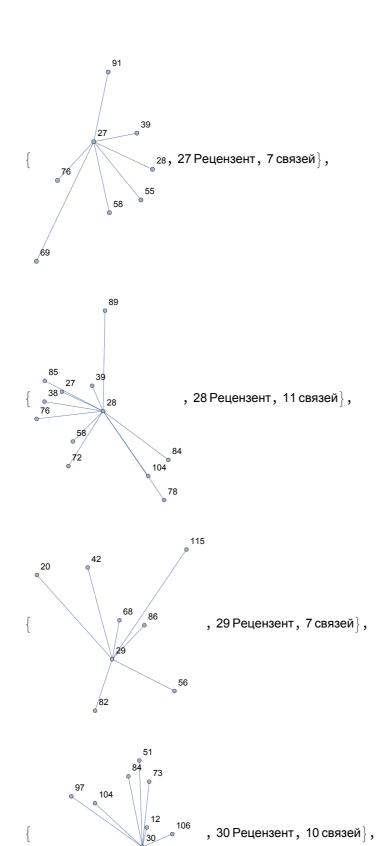


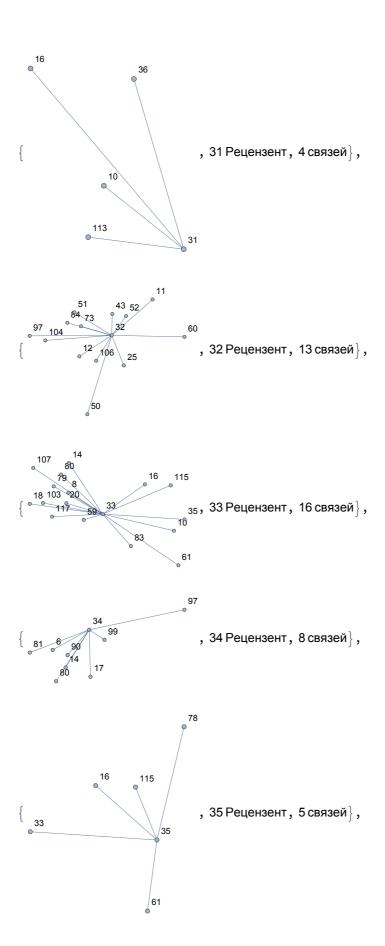


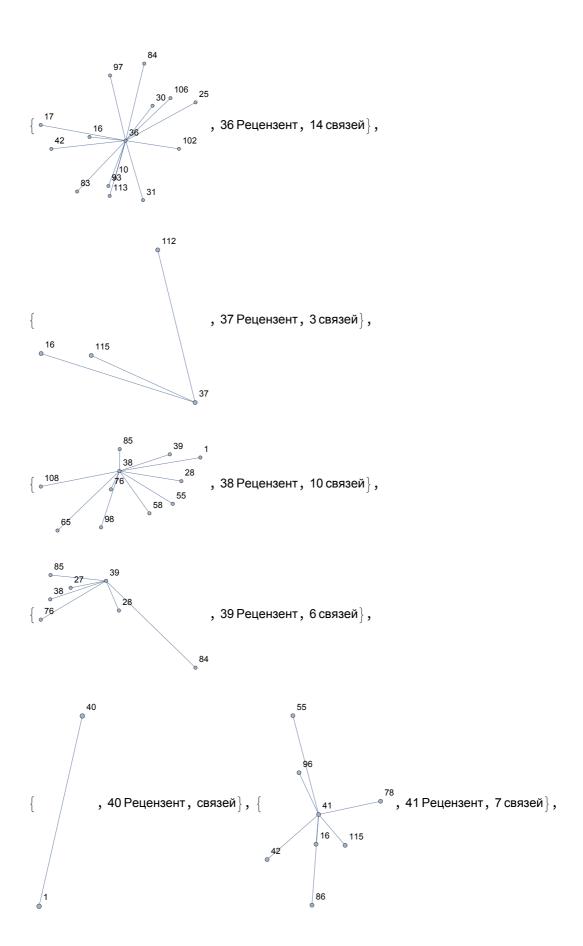


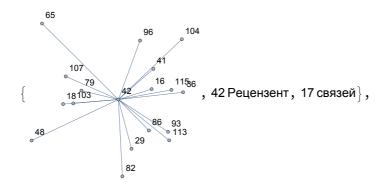


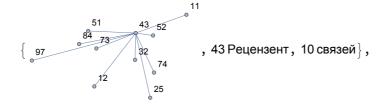


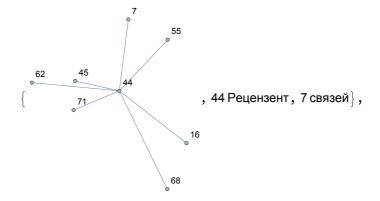


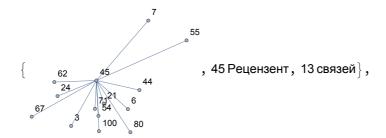


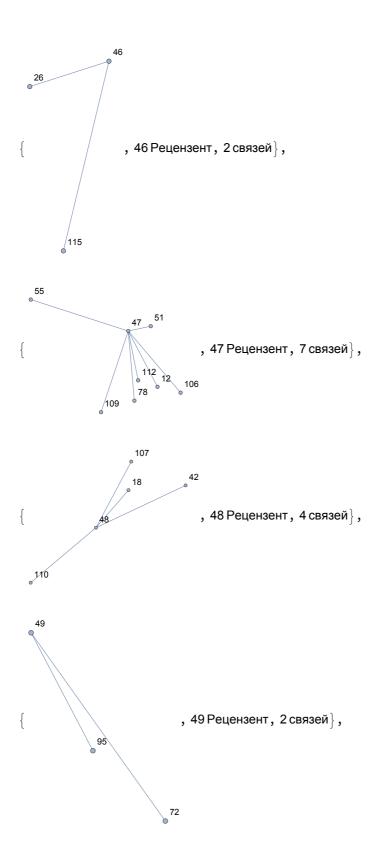


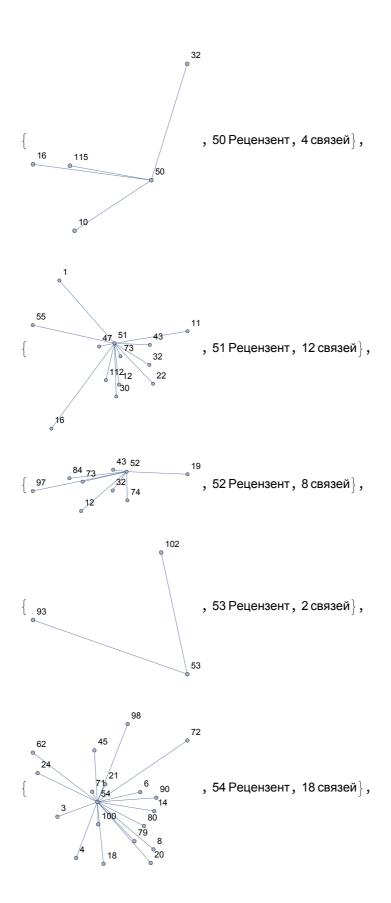


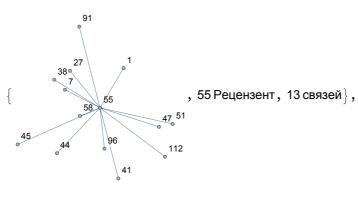


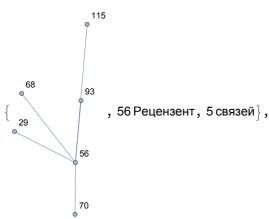


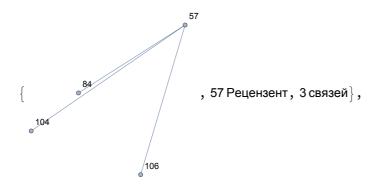


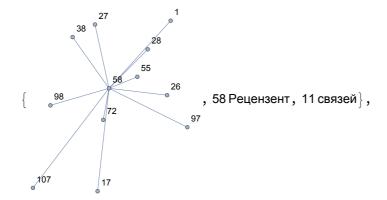


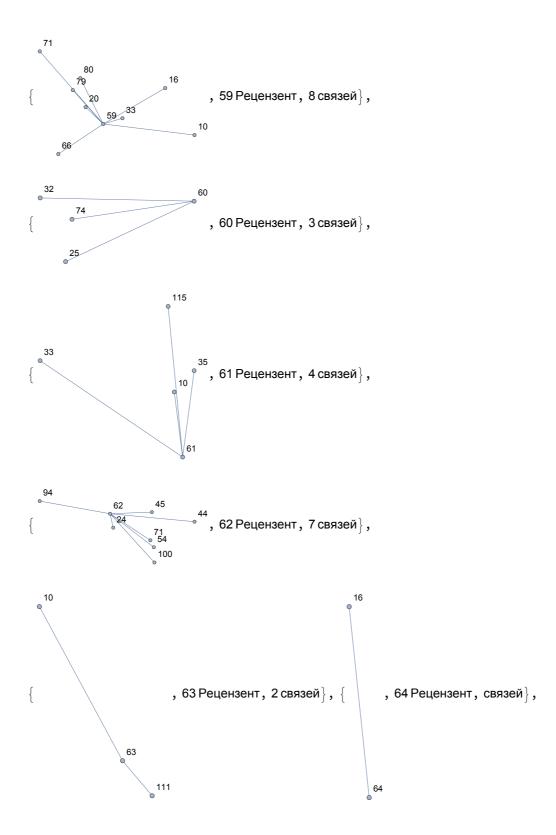


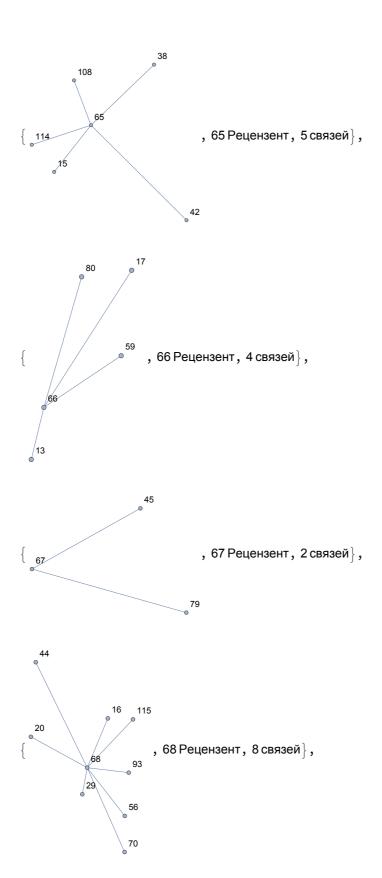


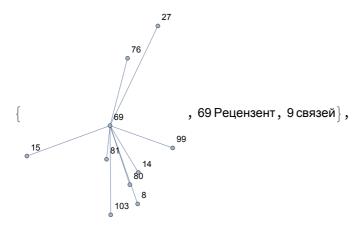


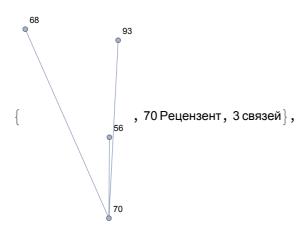


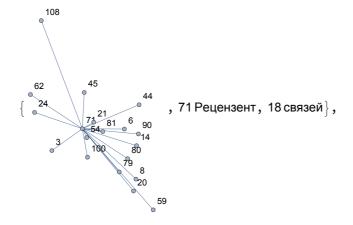


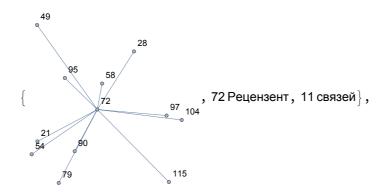


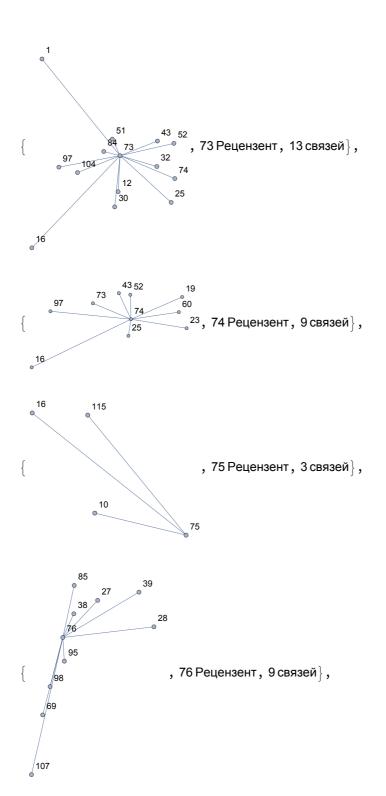


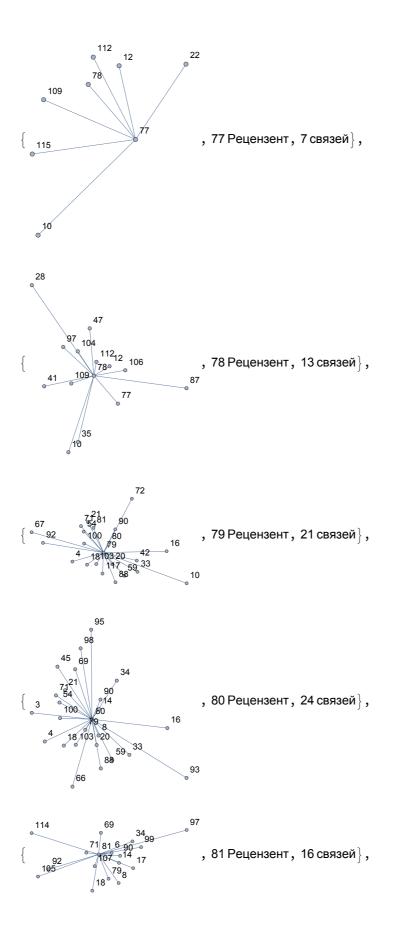


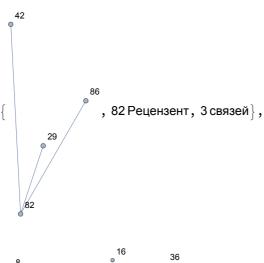


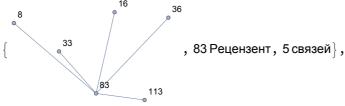


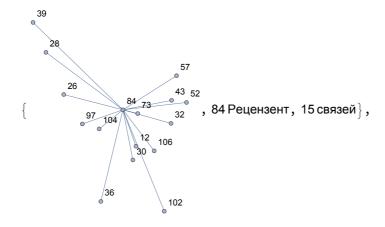


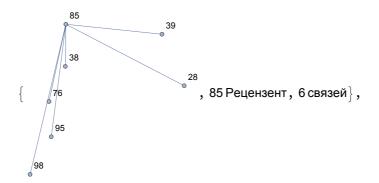


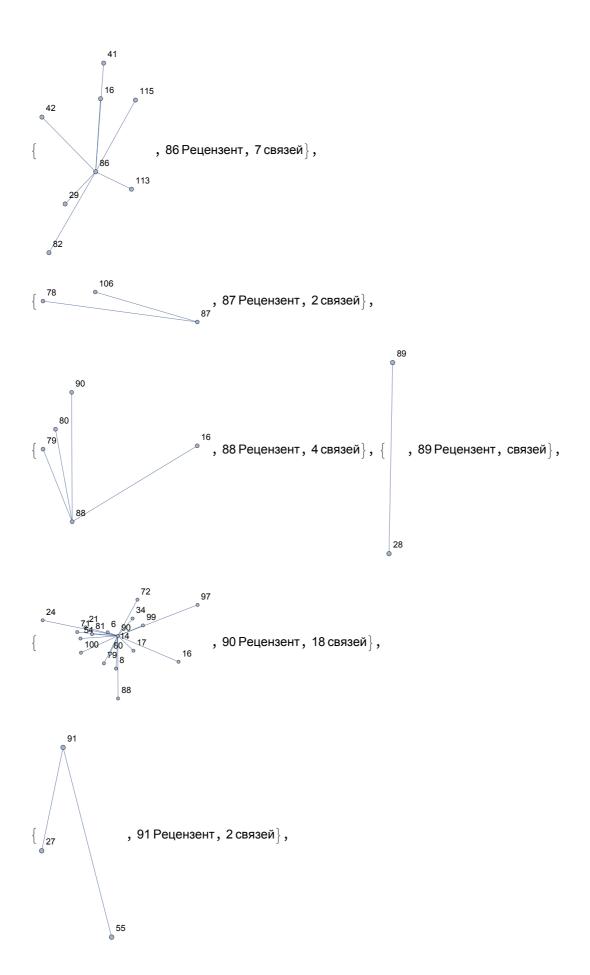


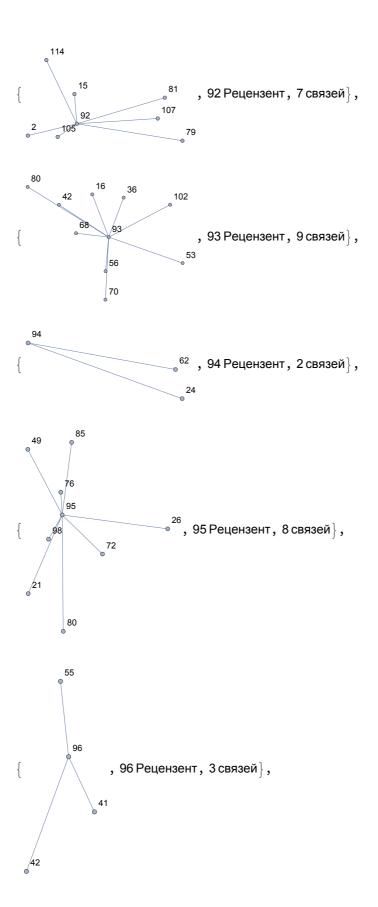


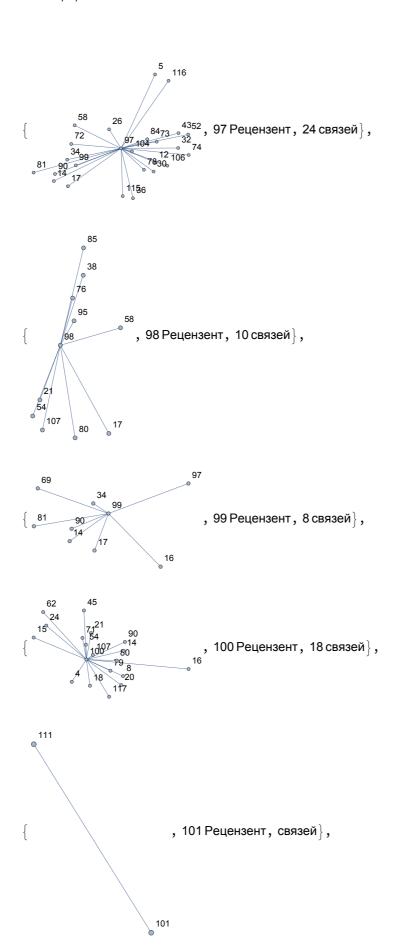


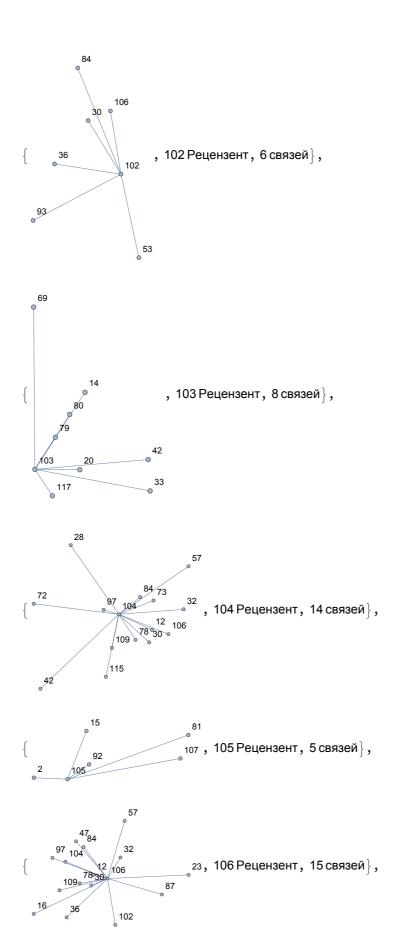


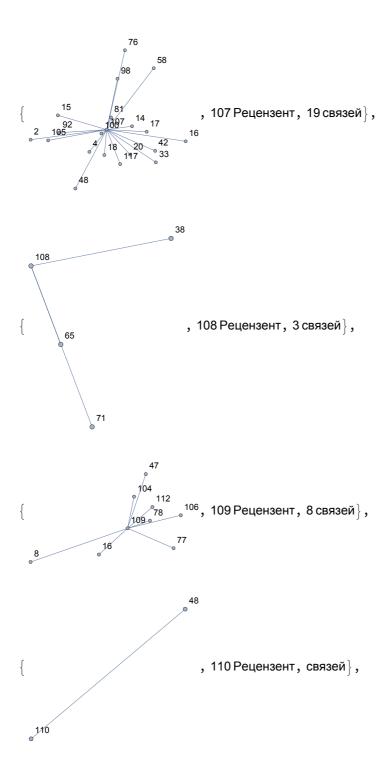


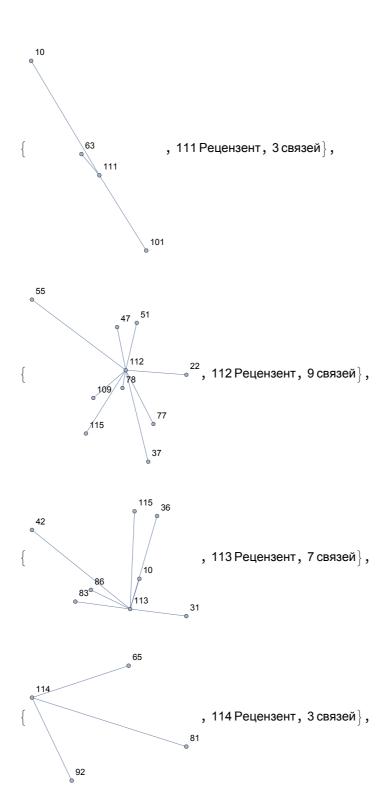


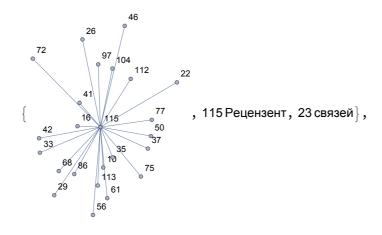


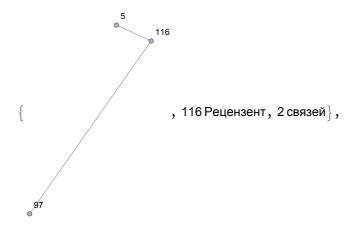


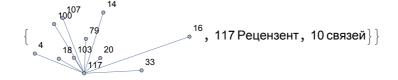










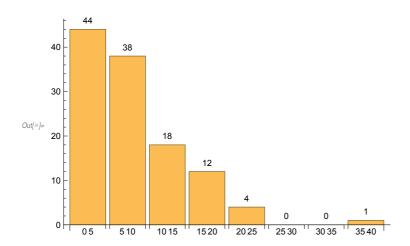


In[@]:=

BarChart[

столбиковая диаграмма

Table[Count[Table[EdgeCount[FindSpanningTree[NeighborhoodGraph[a12, i]]]], {i, 1, 117}], x_{j} , $5 * j < x \le 5 * (j + 1)$, {j, 0, 7}, LabelingFunction \rightarrow Above, _функция создания отм… сверху



In[@]:=

NeighborhoodGraph[a12, 32,

Граф окрестности

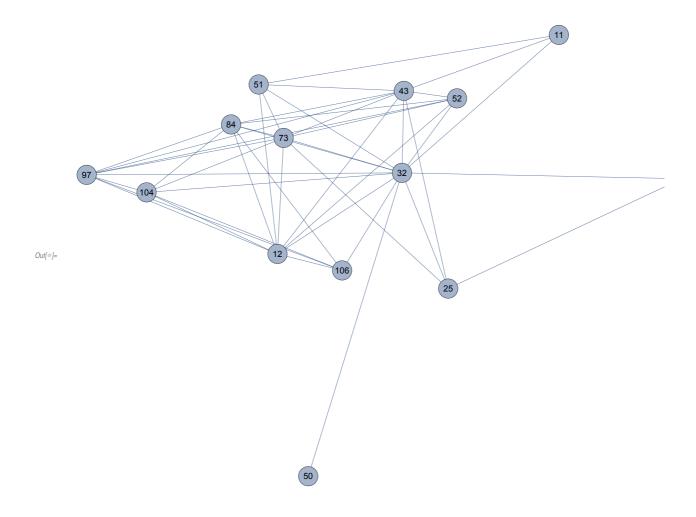
VertexLabels → Placed[Automatic, Center], VertexSize → 0.4]

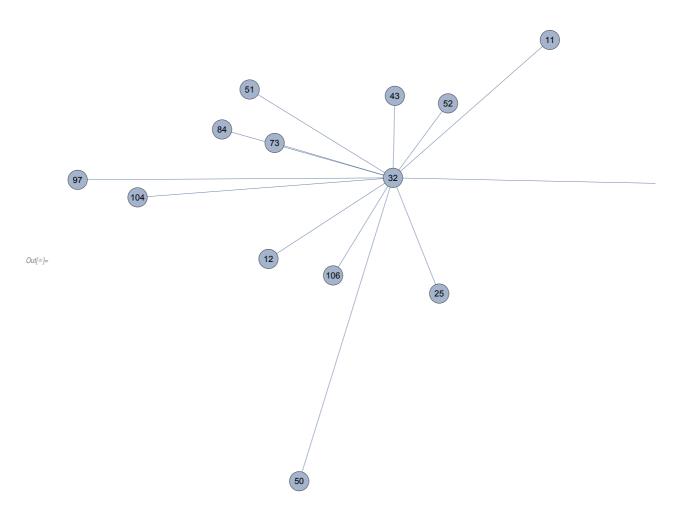
_метки для вершин _распо… _автоматиче… _центр размер вершины

FindSpanningTree[NeighborhoodGraph[a12, 32,

VertexLabels → Placed[Automatic, Center], VertexSize → 0.4]]

[метки для вершин [распо… [автоматиче… [центр [размер вершины



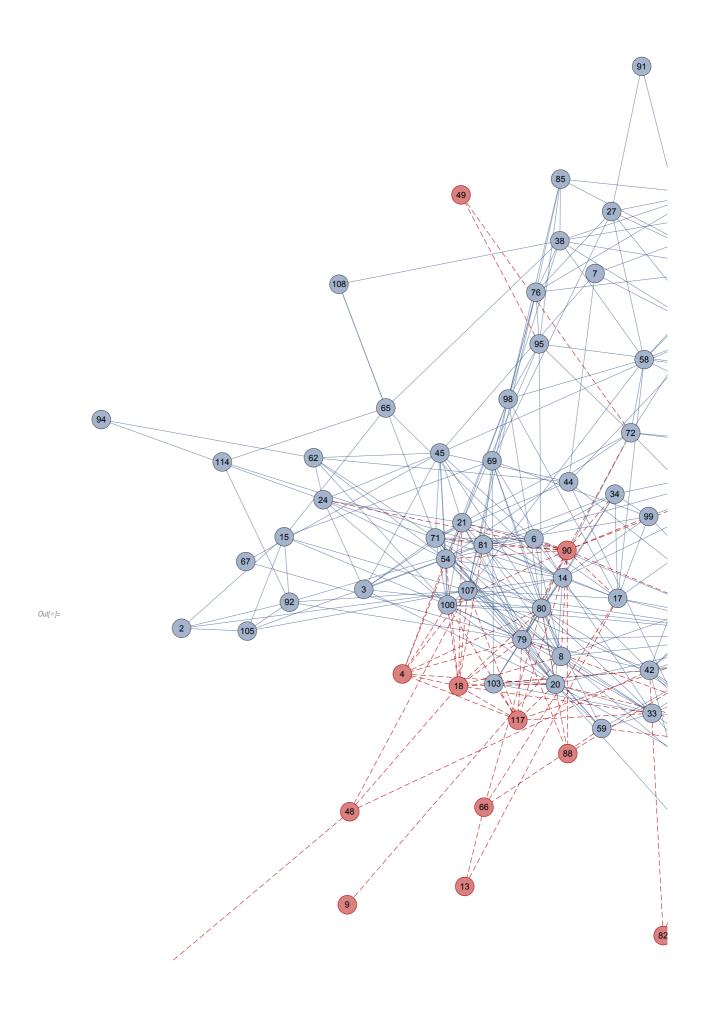


In[@]:=

GraphPlot[a12,

визуализация графа

```
GraphHighlight → Flatten[{{4, 5, 9, 10, 13, 18, 23, 31, 48, 49, 53, 63,
выделить в графе уплостить
     66, 70, 75, 82, 87, 88, 89, 90, 101, 110, 111, 117},
    {Flatten[Table[EdgeList[FindSpanningTree[NeighborhoodGraph[a12, i]]],
    уплостить Гтабл… Список р… Гнайти остовное деревс граф окрестности
       {i, {4, 5, 9, 10, 13, 18, 23, 31, 48, 49, 53, 63, 66,
          70, 75, 82, 87, 88, 89, 90, 101, 110, 111, 117}}]]}],
GraphHighlightStyle → "Dashed", VertexLabels → Placed[Automatic, Center],
[стиль выделенных элементов: штрихов… метки для вершин распо… автоматиче… центр
VertexSize → 0.8]
_размер вершины
```



```
EdgeCount[a2] / EdgeCount[CompleteGraph[15]] // RealAbs
               число рёбер полный граф
                                                 абсолютная величина действительн
число рёбер
```

HighlightGraph[a12,

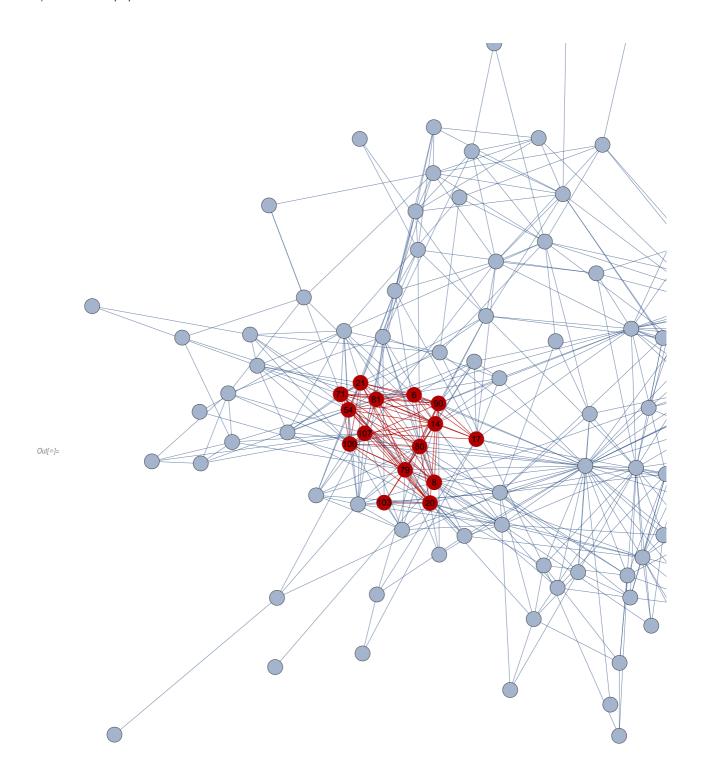
```
граф с подкраской
```

```
граф
      14 \leftrightarrow 54, 14 \leftrightarrow 71, 14 \leftrightarrow 80, 14 \leftrightarrow 81, 14 \leftrightarrow 90, 17 \leftrightarrow 107, 17 \leftrightarrow 81, 17 \leftrightarrow 90,
      20 \leftrightarrow 100, 20 \leftrightarrow 103, 20 \leftrightarrow 107, 20 \leftrightarrow 21, 20 \leftrightarrow 54, 20 \leftrightarrow 71, 20 \leftrightarrow 79, 20 \leftrightarrow 80,
      21 \leftrightarrow 100,\ 21 \leftrightarrow 54,\ 21 \leftrightarrow 71,\ 21 \leftrightarrow 79,\ 21 \leftrightarrow 80,\ 21 \leftrightarrow 90,\ 54 \leftrightarrow 100,\ 54 \leftrightarrow 71,
      54 \leftrightarrow 79, 54 \leftrightarrow 80, 54 \leftrightarrow 90, 6 \leftrightarrow 14, 6 \leftrightarrow 17, 6 \leftrightarrow 21, 6 \leftrightarrow 54, 6 \leftrightarrow 71, 6 \leftrightarrow 8,
      6\leftrightarrow81, 6\leftrightarrow90, 71\leftrightarrow100, 71\leftrightarrow79, 71\leftrightarrow80, 71\leftrightarrow81, 71\leftrightarrow90, 79\leftrightarrow100,
      79 \leftrightarrow 103, 79 \leftrightarrow 80, 79 \leftrightarrow 81, 79 \leftrightarrow 90, 8 \leftrightarrow 100, 8 \leftrightarrow 54, 8 \leftrightarrow 71, 8 \leftrightarrow 80,
      8 \leftrightarrow 81, 8 \leftrightarrow 90, 80 \leftrightarrow 100, 80 \leftrightarrow 103, 80 \leftrightarrow 90, 81 \leftrightarrow 107, 81 \leftrightarrow 90, 90 \leftrightarrow 100\},
   VertexLabels → Automatic], VertexLabels → Placed[Automatic, Center]]
  _метки для вершин _автоматичес… _метки для вершин _распо… _автоматиче… _центр
```

 $Graph[\{100 \leftrightarrow 107, 14 \leftrightarrow 100, 14 \leftrightarrow 103, 14 \leftrightarrow 107, 14 \leftrightarrow 17, 14 \leftrightarrow 20, 14 \leftrightarrow 21, 14 \leftrightarrow 107, 14 \leftrightarrow 107,$

105

In[@]:=



VertexLabels → Placed[Automatic, Center]]

метки для вершин ****распо··· **_** автоматиче··· **_** центр

