Analyzing Social Cohesion and SubGroups Components Using Pajek

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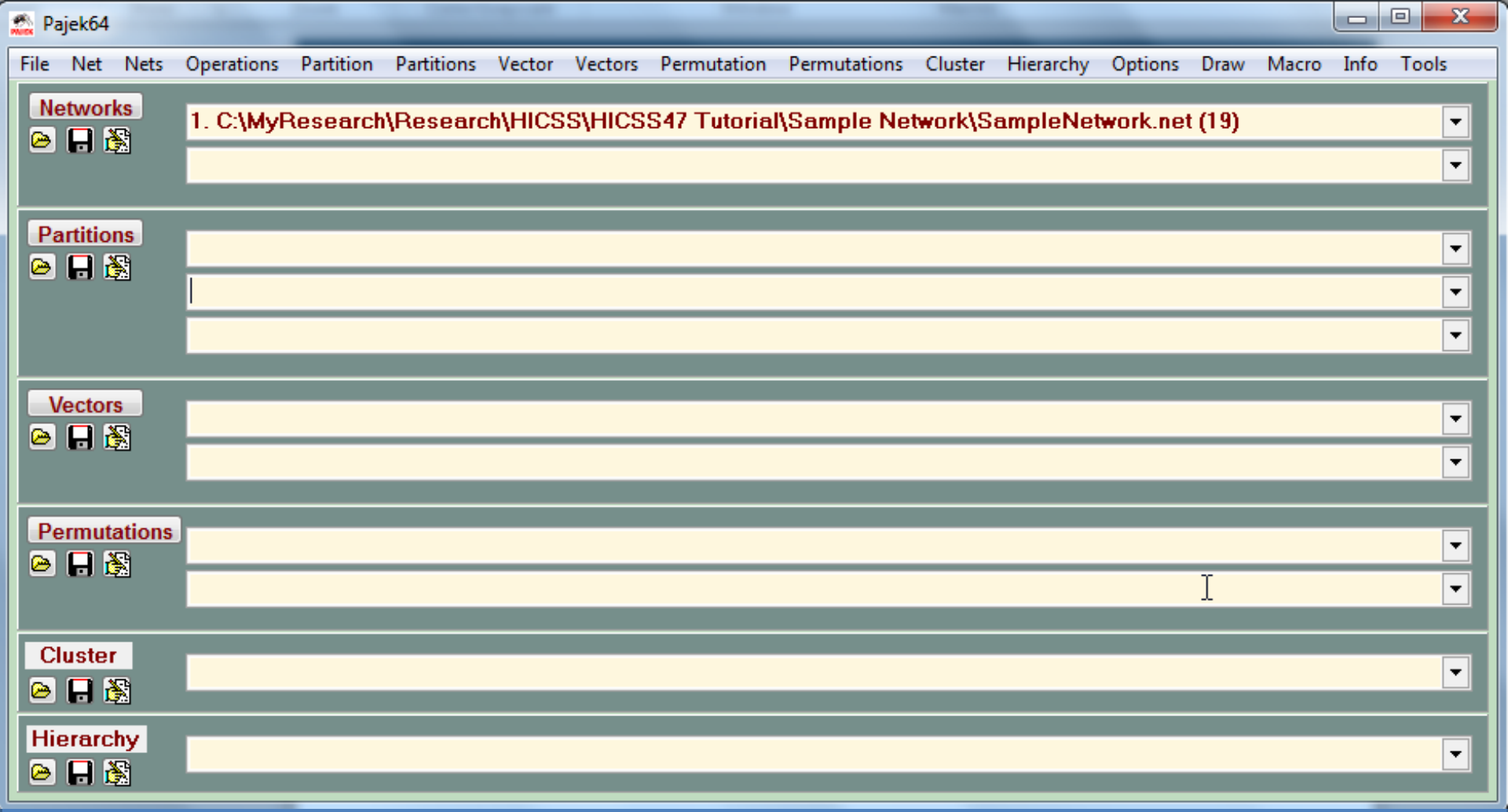
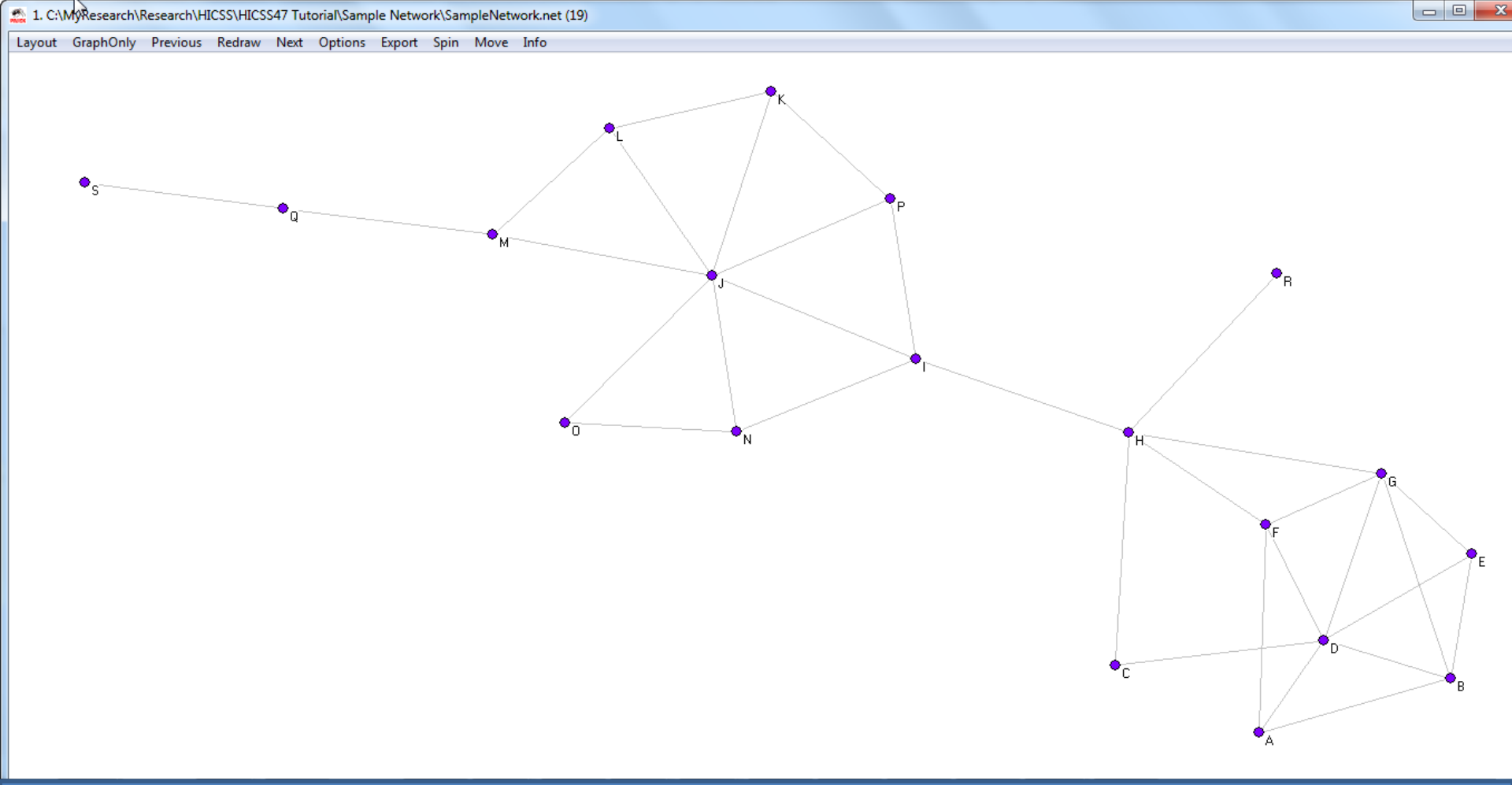
HICSS 47

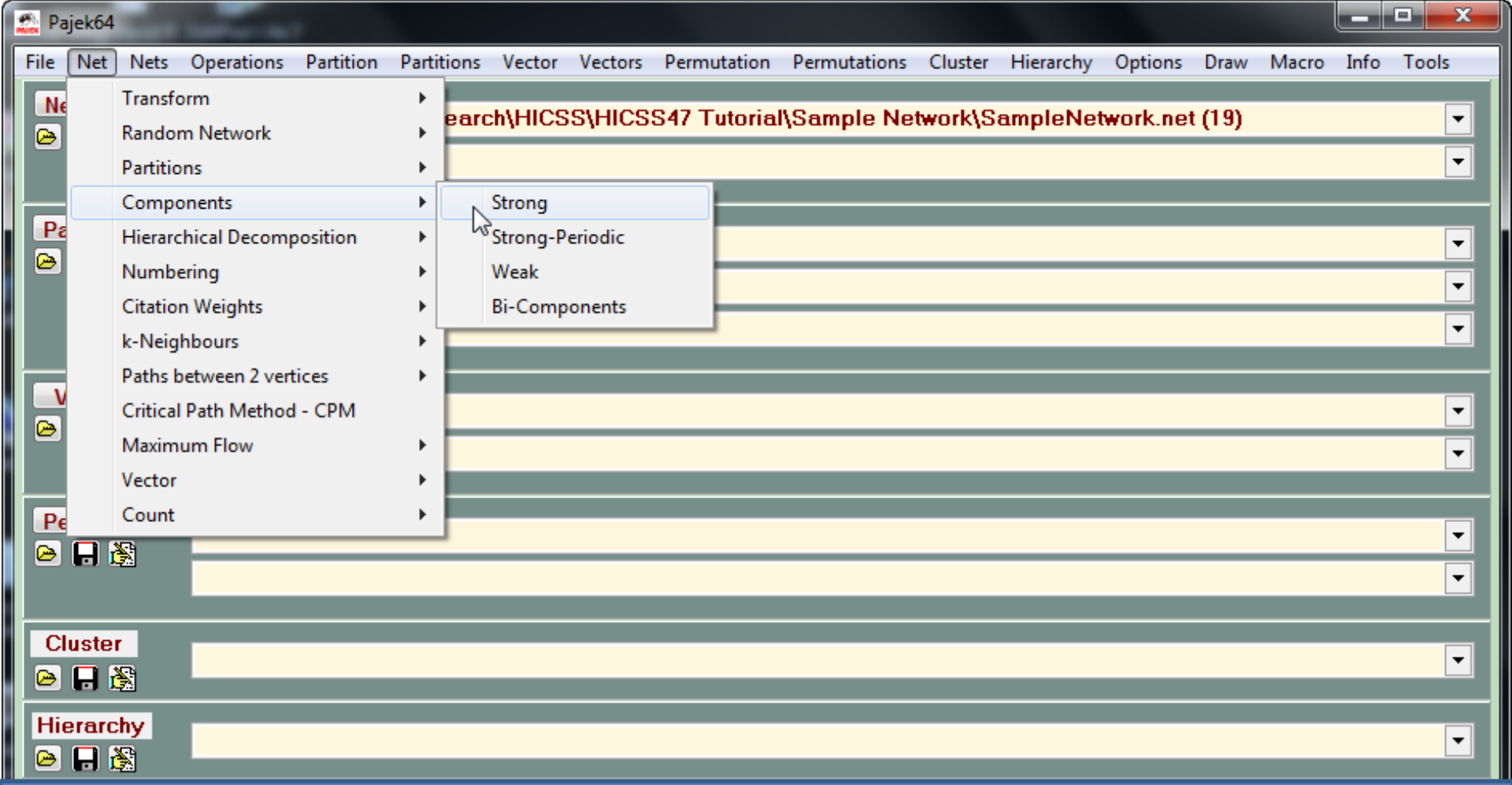
2014



Step 1A: Revisiting SampleNetwork



Step 1B: Initial Graph



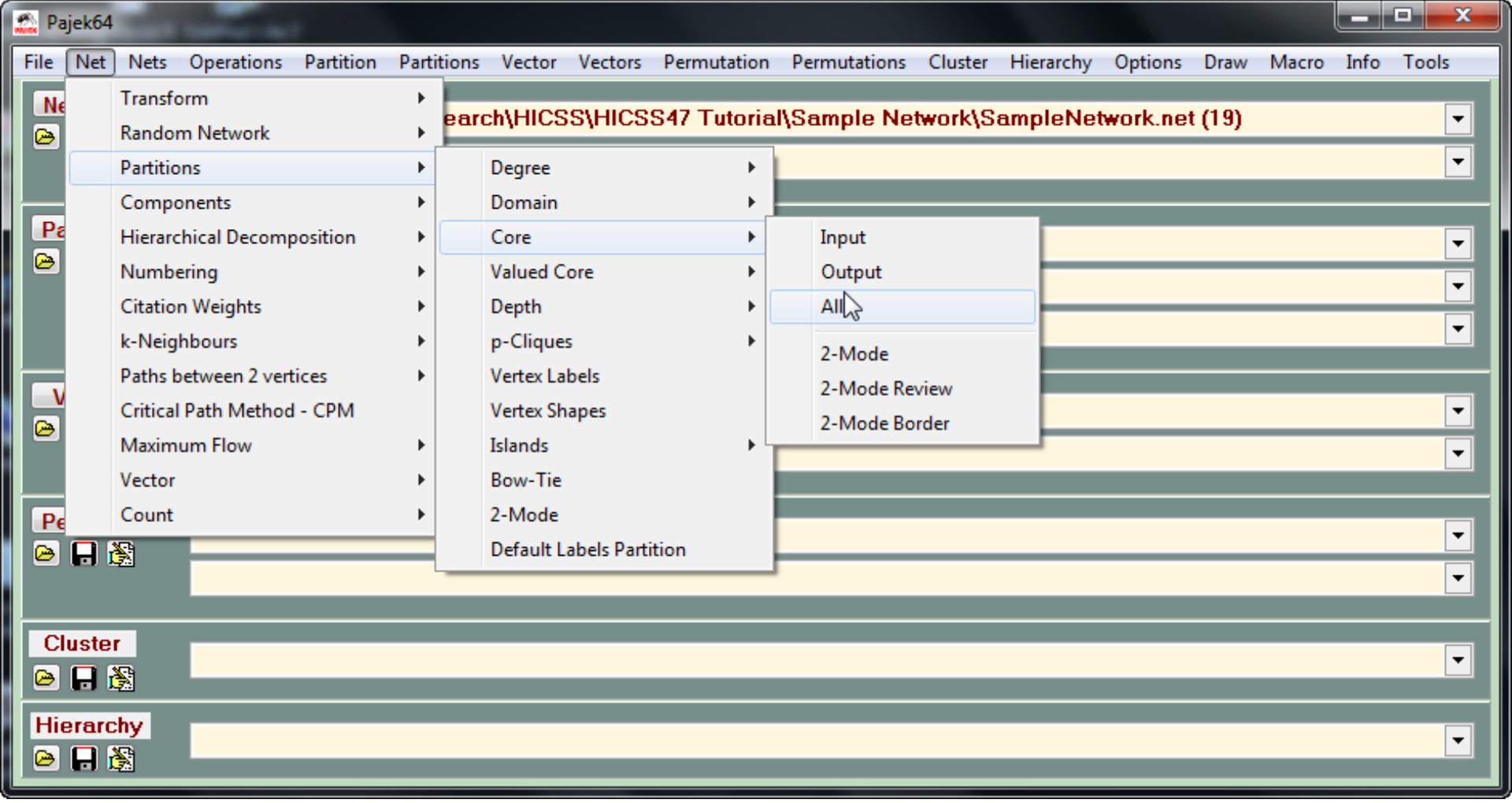
Step 1C: Searching for Components – Strong or Weak

Report

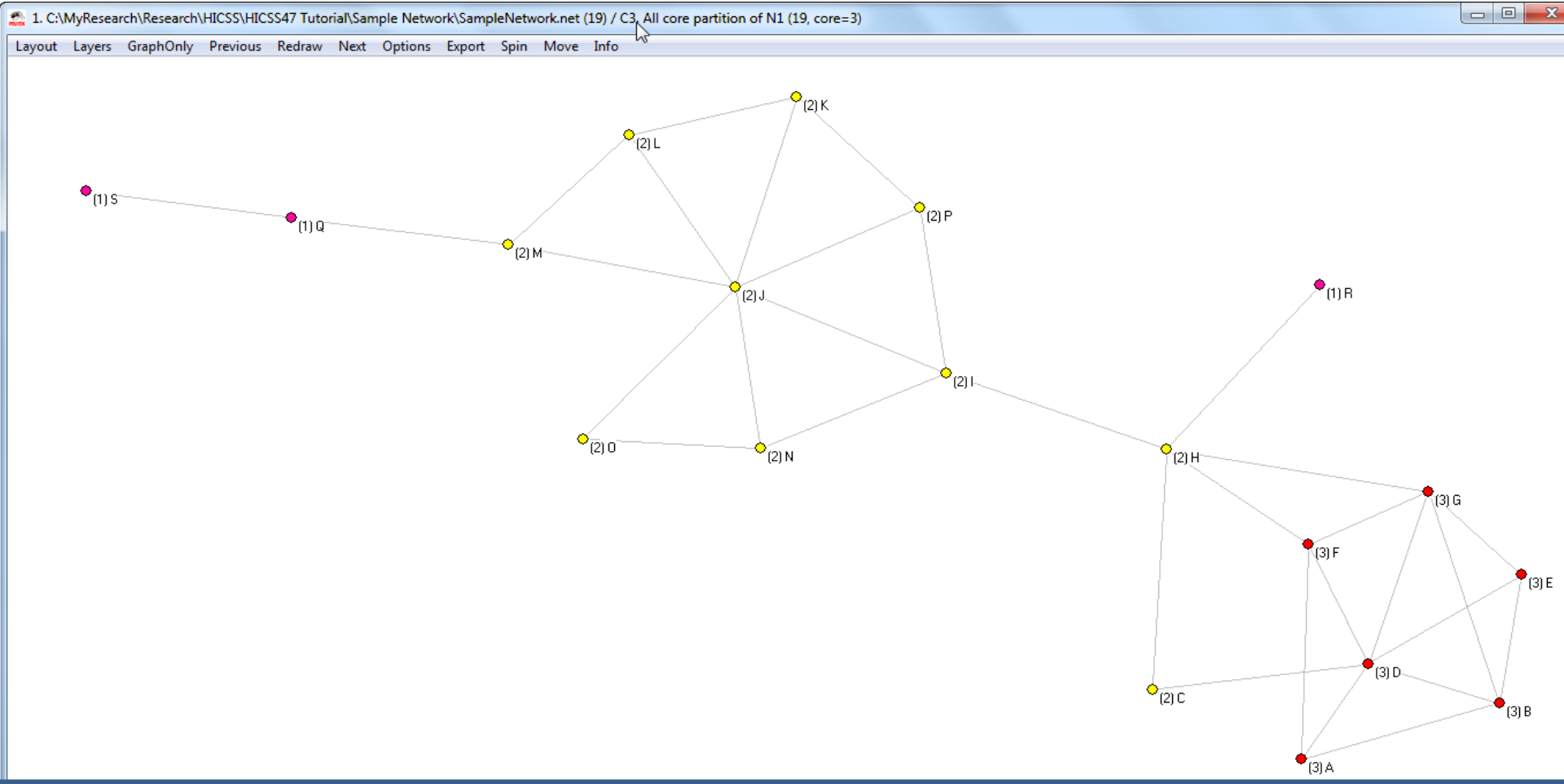
File

```
Reading Network    ---     C:\MyResearch\Research\HICSS\HICSS47 Tutorial\Sample Network\SampleNetwork.net
------------------------------------------------------------------------------
 Working...
             53 lines read.
 Time spent:  0:00:00

------------------------------------------------------------------------------
Strong Components
------------------------------------------------------------------------------
 Working...
 Number of components: 1
 Size of the largest component: 19 vertices (100.000%).
 Time spent:  0:00:00

------------------------------------------------------------------------------
Weak Components
------------------------------------------------------------------------------
 Working...
 Number of components: 1
 Size of the largest component: 19 vertices (100.000%).
 Time spent:  0:00:00

------------------------------------------------------------------------------
2. Weak Components of N1 [>=1] (19, comp.=1)
------------------------------------------------------------------------------
Dimension: 19
The lowest value:  1
The highest value: 1

Frequency distribution of cluster values:

   Cluster      Freq      Freq%    CumFreq  CumFreq% Representative
 ----------------------------------------------------------------
         1        19  100.0000         19  100.0000 A
 ----------------------------------------------------------------
       Sum        19  100.0000
```

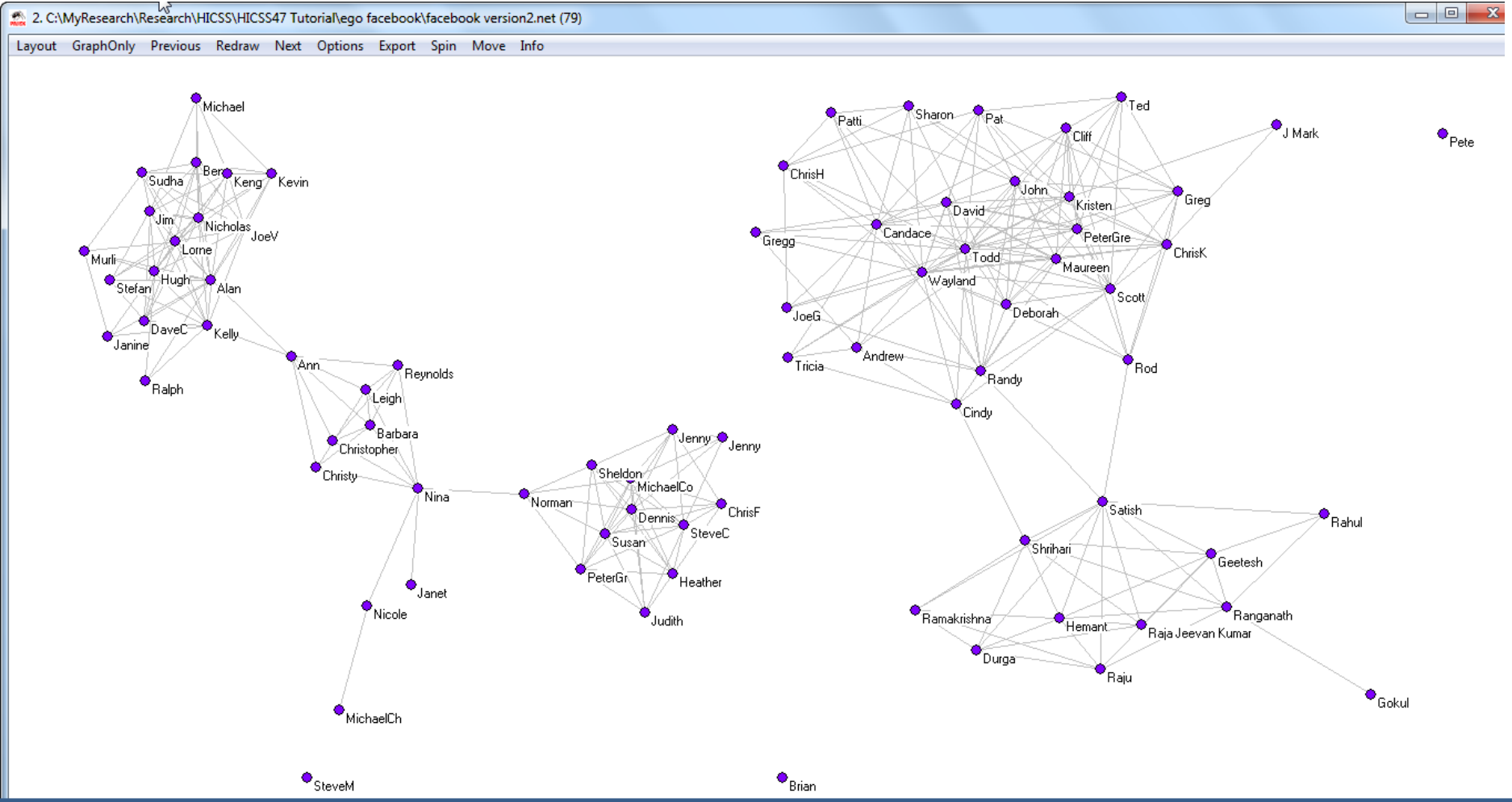
Step 1D: 1 Strong Component



Step 1E: Searching for k-cores



Step 1F: Display of Cores



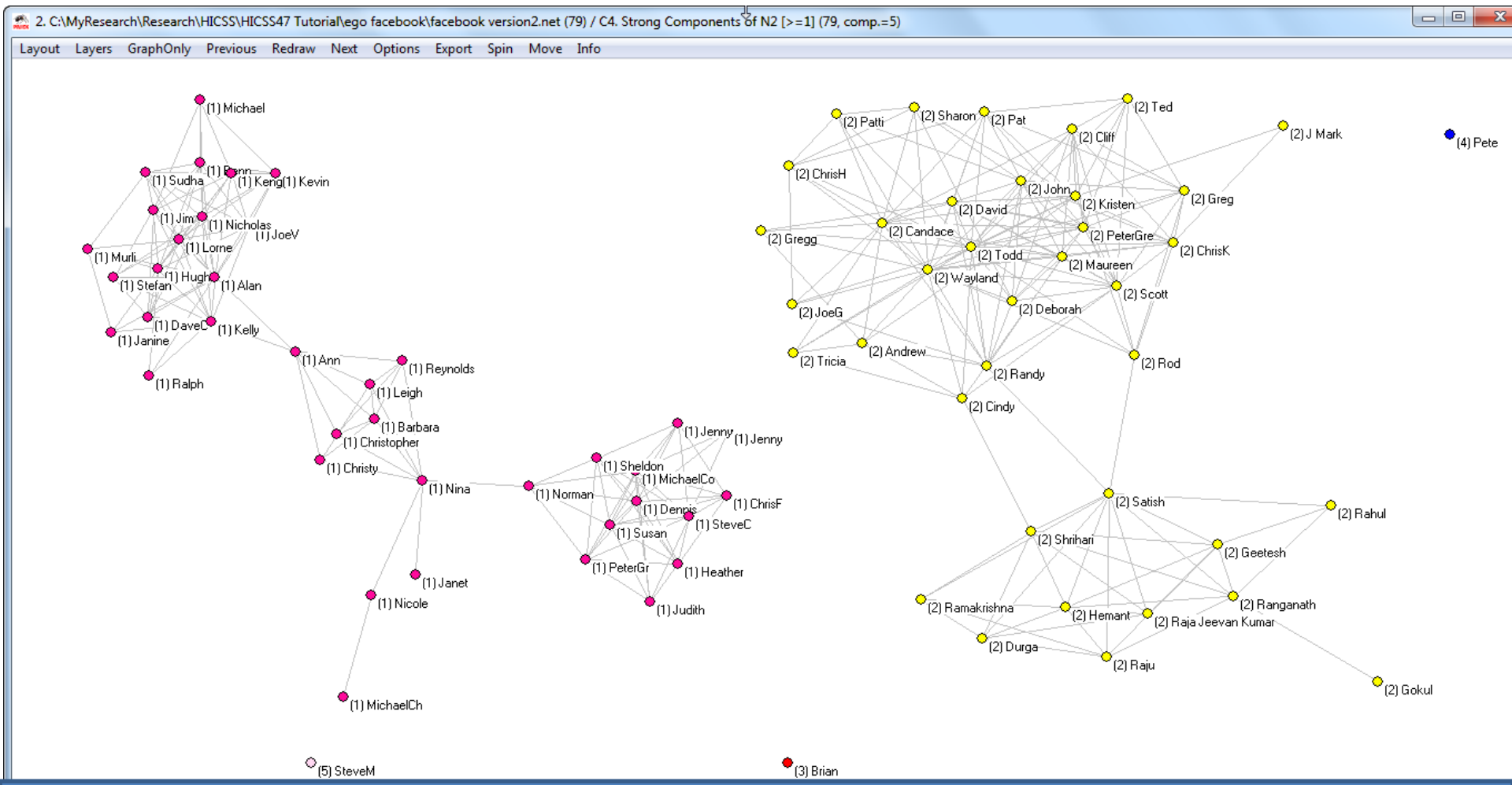
Step 2A: Graph of Facebook Data

Report

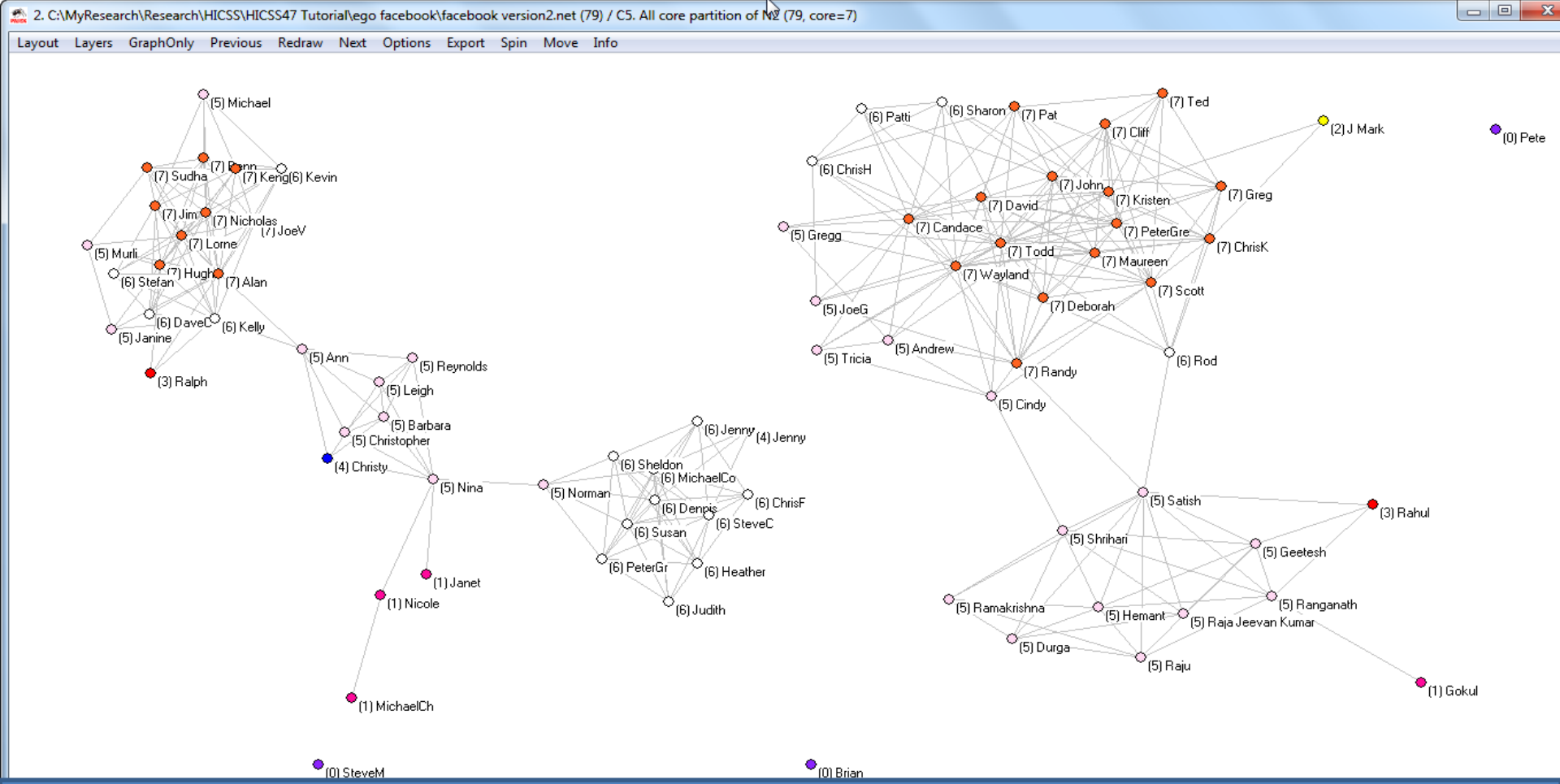
File

```
 Time spent:  0:00:00

--------------------------------------------------------------------------------
2. Weak Components of N1 [>=1] (19, comp.=1)
--------------------------------------------------------------------------------
Dimension: 19
The lowest value:  1
The highest value: 1

Frequency distribution of cluster values:

   Cluster      Freq      Freq%    CumFreq  CumFreq% Representative
 ----------------------------------------------------------------
         1        19  100.0000         19  100.0000 A
 ----------------------------------------------------------------
       Sum        19  100.0000


--------------------------------------------------------------------------------
Core Partition
--------------------------------------------------------------------------------
 Time spent:  0:00:00

--------------------------------------------------------------------------------
Reading Network   ---    C:\MyResearch\Research\HICSS\HICSS47 Tutorial\ego facebook\facebook version2.net
--------------------------------------------------------------------------------
 Working...
            391 lines read.
 Time spent:  0:00:00

--------------------------------------------------------------------------------
Strong Components
--------------------------------------------------------------------------------
 Working...
 Number of components: 5
 Size of the largest component: 39 vertices (49.367%).
 Time spent:  0:00:00
```

Step 2B: Search for Components



Step 2C: Component View



Step 2C: Display of Cores