1. Pick the edge (p,q) which has the maximum number of common neighbors (a vertex is a common neighbor of an edge if it is connected with both vertices of the edge).

* Tie-breaking: select p and q such that the sum of node degrees is maximum;
* If the graph has no edges, then stop.

1. Cluster p and q into a clique.
2. Delete edges from p and q that are not connected with their common neighbors.
3. Combine p and q in the original graph and call it r.
4. If vertex r is isolated, Goto 1.

Else pick an edge s which includes r as a vertex and which has the maximum number of common neighbors.

1. Rename r and s as p and q.
2. Goto 3.

原始图你可以随机生成100个点，然后随机连线即可。