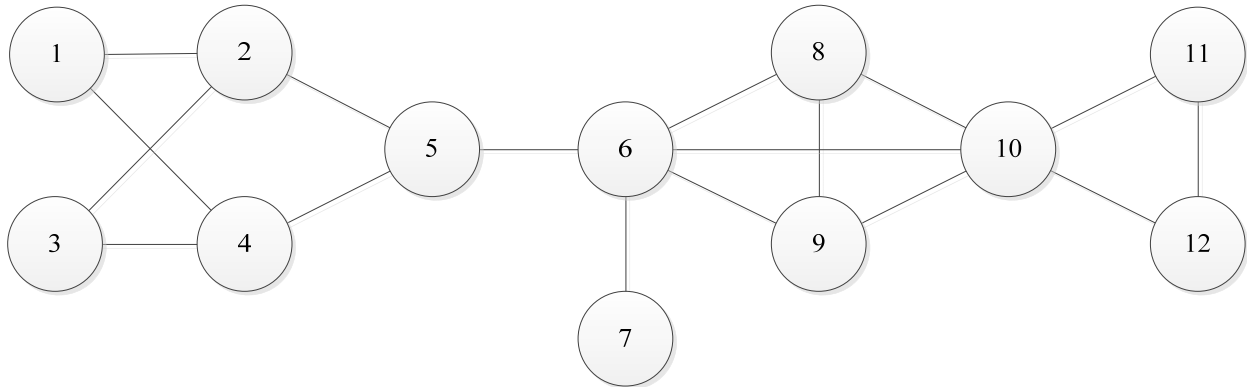


Graph Summary examples in SAS

This example defines two different graphs and computes summary statistics on both. The first summary call utilizes the graph below. The second call creates a graph consisting of 5 K_1 s, 2 K_2 s, 1 K_3 and 1 K_4 .



```
data summary_example;
input from $ to $ ;
datalines;
1 2
1 4
2 3
2 5
3 4
4 5
5 6
6 7
6 8
6 9
6 10
8 9
8 10
9 10
10 11
10 12
11 12
;
proc optgraph
data_links = summary_example
out_nodes = NodeSetOut1
out_links = LinkSetOut1;
summary
concomp
out = Summary1;
run;
```

```
* Create graph with 5K1s, 2 K2s, 1K3 and 1 K4;
data vertices;
input node $ @@;
datalines;
A B C D E F G H I J K L M N O P
;
data edges;
input from $ to $ @@;
datalines;
A B
C D
E F
F G
G E
H I
H J
H K
I J
I K
J K
;
proc optgraph
data_nodes = vertices
data_links = edges
out_nodes = NodeSetOut2
out_links = LinkSetOut2 ;
summary
concomp
out = Summary2;
run;
```