

Java version used for this program is 12.0.2

GraphTest.java starts

```
----- 13 -----
UNDIRECTED GRAPH
Num Vertices = 7
Num Edges    = 24
1 Fanouts: 2,3,4
1 FanIns: 2,3,4
2 Fanouts: 1,5,4
2 FanIns: 1,5,4
3 Fanouts: 1,6,4
3 FanIns: 1,6,4
4 Fanouts: 1,2,3,5,7,6
4 FanIns: 1,2,3,5,7,6
5 Fanouts: 2,4,7
5 FanIns: 2,4,7
6 Fanouts: 3,7,4
6 FanIns: 3,7,4
7 Fanouts: 4,5,6
7 FanIns: 4,5,6
----- 14 -----
```

WEIGHTED\_UNDIRECTED GRAPH

```
Num Vertices = 6
Num Edges    = 20
1 Fanouts: 2,3,4
1 FanIns: 2,3,4
2 Fanouts: 1,3,5
2 FanIns: 1,3,5
3 Fanouts: 1,2,4,5,6
3 FanIns: 1,2,4,5,6
4 Fanouts: 1,3,6
4 FanIns: 1,3,6
5 Fanouts: 2,3,6
5 FanIns: 2,3,6
6 Fanouts: 3,4,5
6 FanIns: 3,4,5
----- 15 -----
```

DIRECTED GRAPH

```
Num Vertices = 6
Num Edges    = 6
A Fanouts: B
A FanIns: NONE
B Fanouts: C
B FanIns: A,D
E Fanouts: F,D
E FanIns: C
F Fanouts: NONE
F FanIns: E
D Fanouts: B
```

D FanIns: E

C Fanouts: E

C FanIns: B

```
----- 16 -----
```

WEIGHTED\_DIRECTED GRAPH

```
Num Vertices = 5
Num Edges    = 6
```

A Fanouts: C,D

A FanIns: B,E

C Fanouts: B,D

C FanIns: A

D Fanouts: NONE

D FanIns: A,C

B Fanouts: A

B FanIns: C

E Fanouts: A

E FanIns: NONE

GraphTest.java Ends

goggle: grapviz online

Graphviz it! New diagram Gallery

```
1= digraph g {
2  edge [dir=none, color=red]
3  1 -> 2
4  1 -> 3
5  1 -> 4
6  2 -> 5
7  2 -> 4
8  3 -> 6
9  3 -> 4
10 4 -> 5
11 4 -> 7
12 4 -> 6
13 5 -> 7
14 6 -> 7
15 }
16
```



