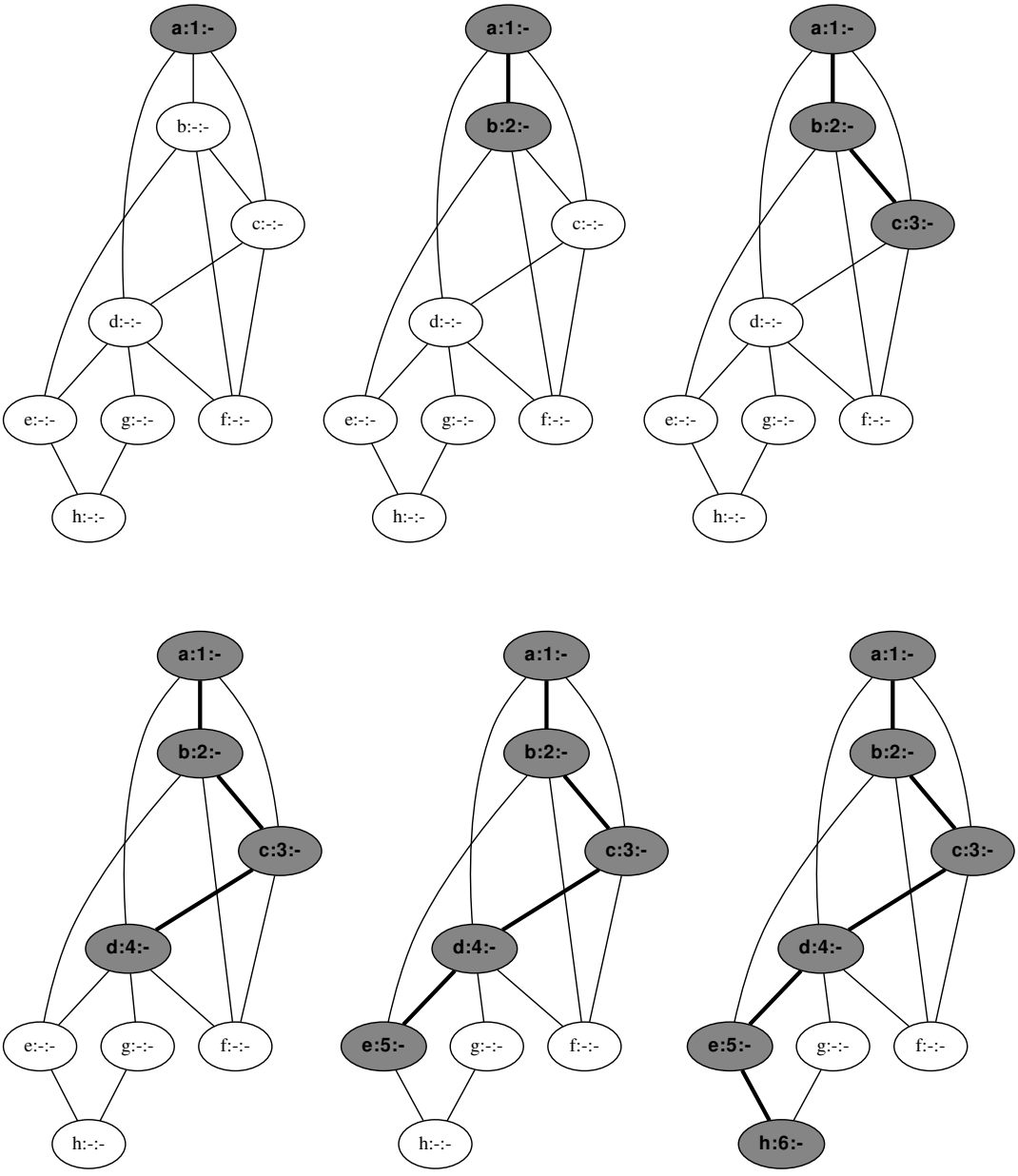
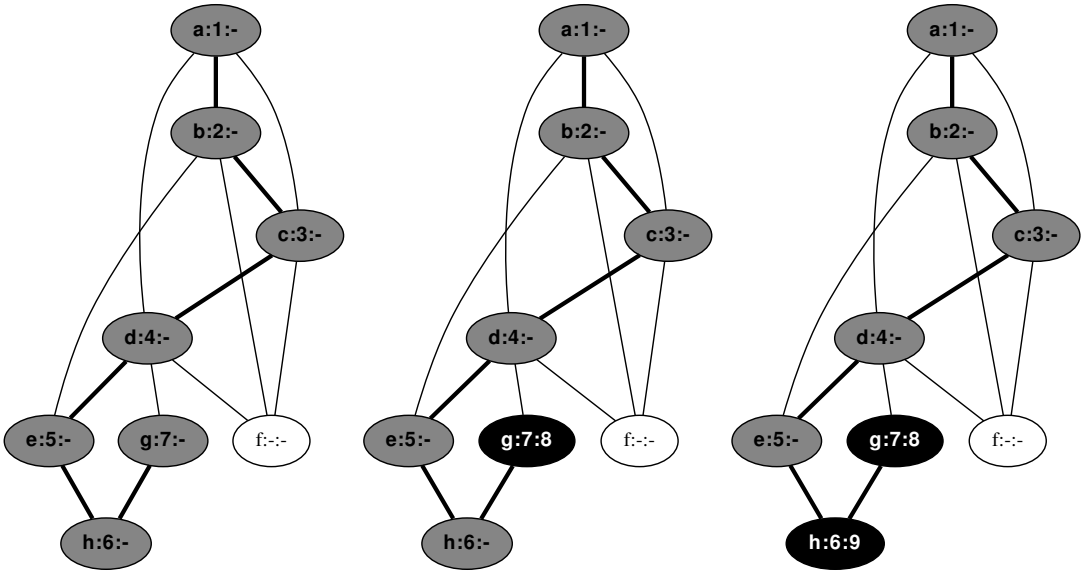
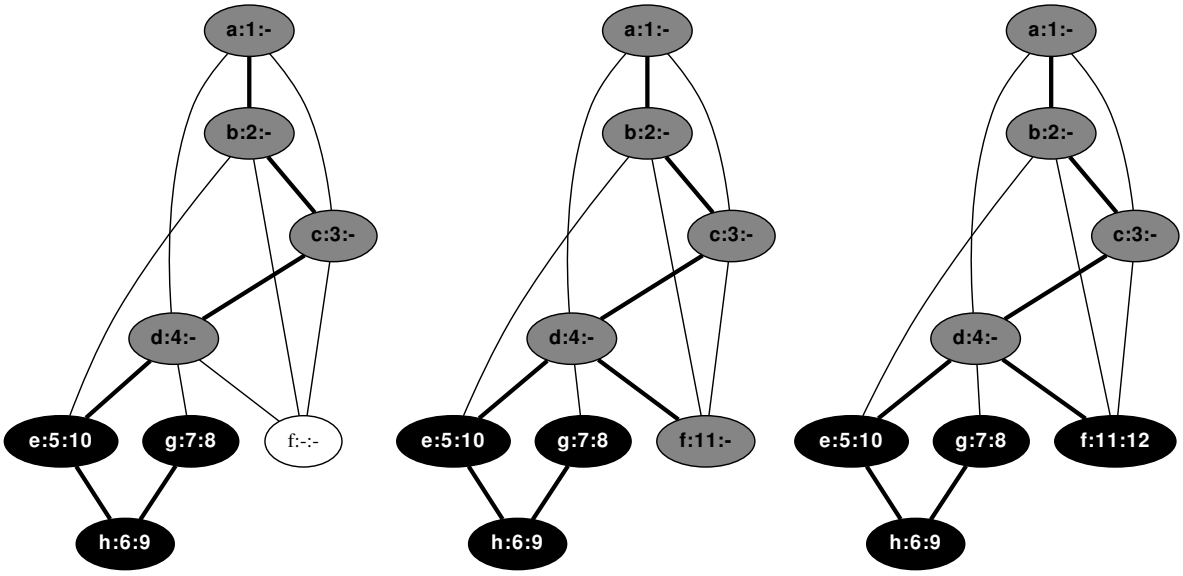
Graph Algorithms: Depth-First Search

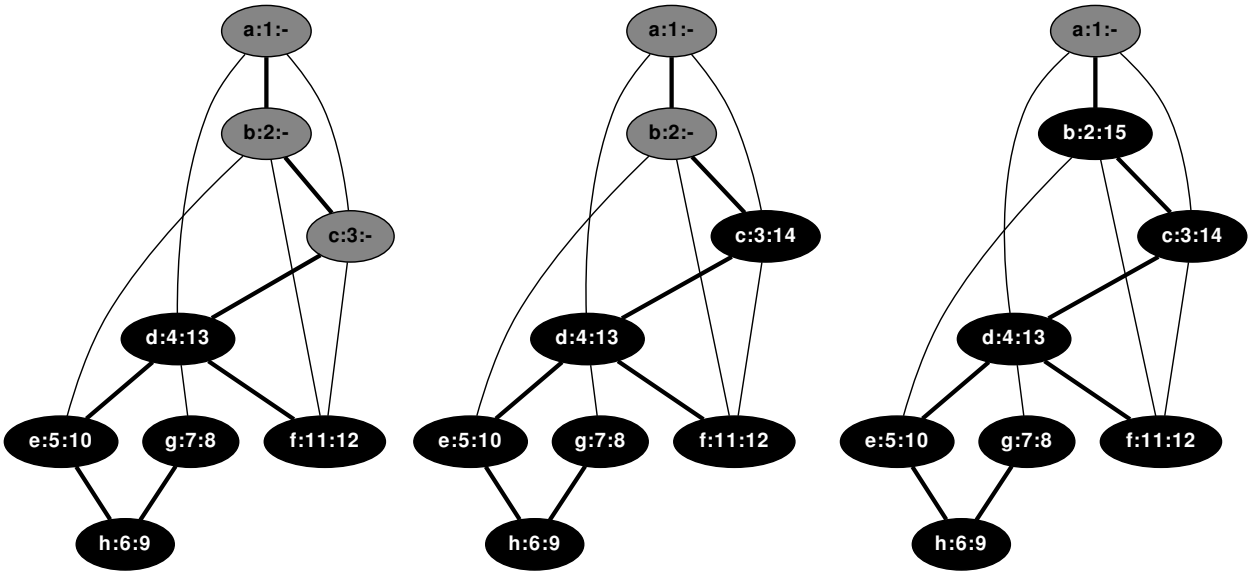
November 19, 2017

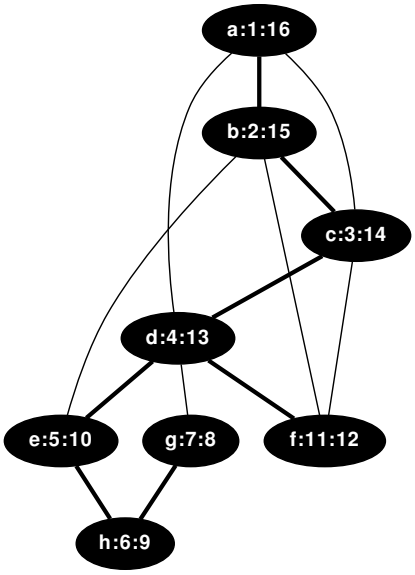
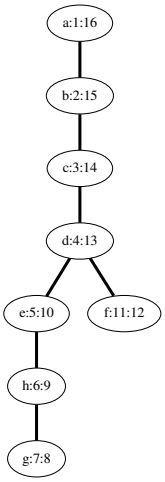
Example: Classroom example, undirected graph




a:1:-
b:2:-
c:3:-
d:4:-
e:5:-
g:7:-
f:-:-
h:6:-
a:1:-
b:2:-
c:3:-
d:4:-
e:5:-
g:7:8
f:-:-
h:6:-
a:1:-
b:2:-
c:3:-
d:4:-
e:5:-
g:7:8
f:-:-
h:6:9


a:1:-
b:2:-
c:3:-
d:4:-
e:5:10
g:7:8
f:-:-
h:6:9
a:1:-
b:2:-
c:3:-
d:4:-
e:5:10
g:7:8
f:11:-
h:6:9
a:1:-
b:2:-
c:3:-
d:4:-
e:5:10
g:7:8
f:11:12
h:6:9


a:1:-
b:2:-
c:3:-
d:4:13
e:5:10
g:7:8
f:11:12
h:6:9
a:1:-
b:2:-
c:3:14
d:4:13
e:5:10
g:7:8
f:11:12
h:6:9
a:1:-
b:2:15
c:3:14
d:4:13
e:5:10
g:7:8
f:11:12
h:6:9



The resulting subgraph: