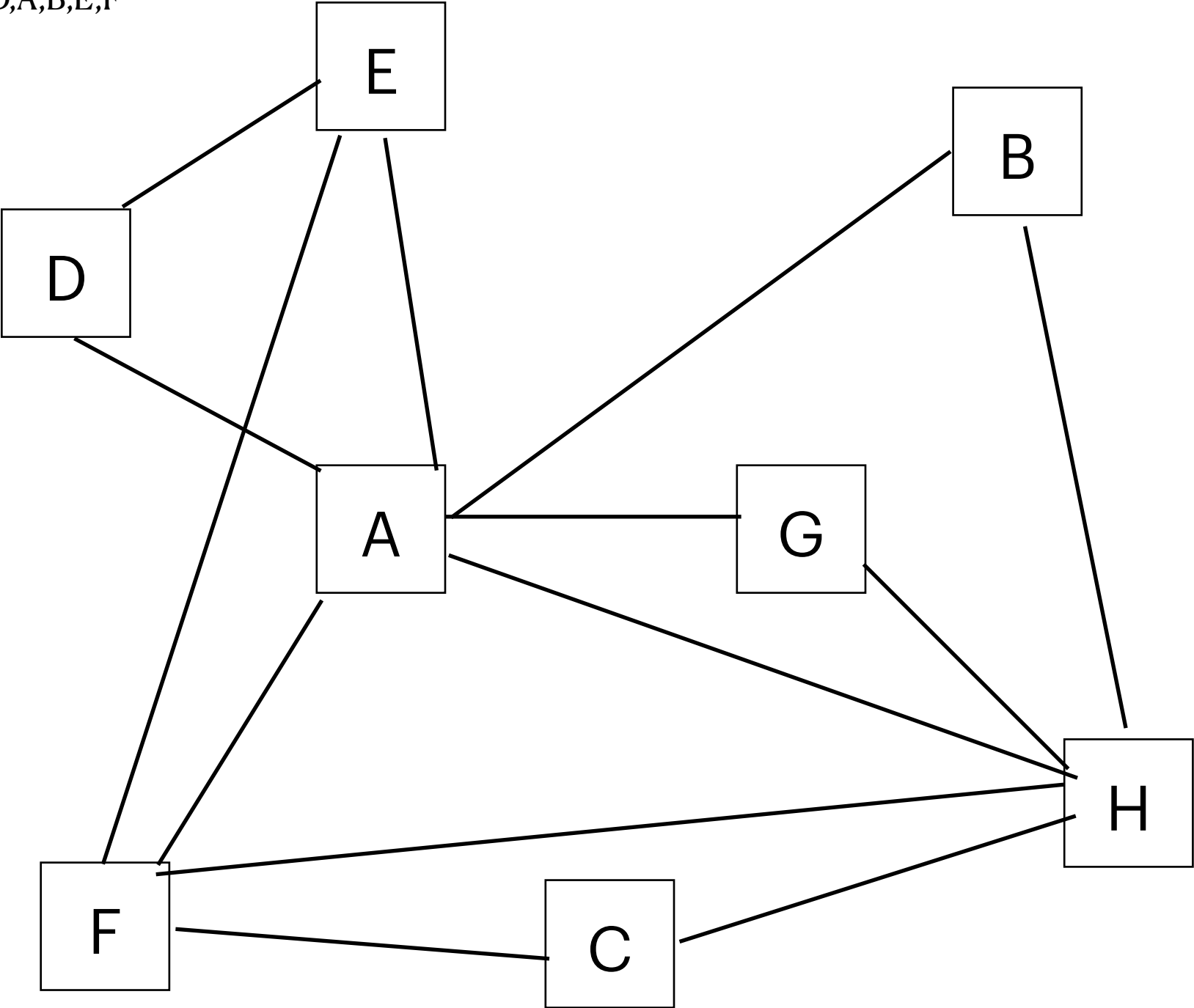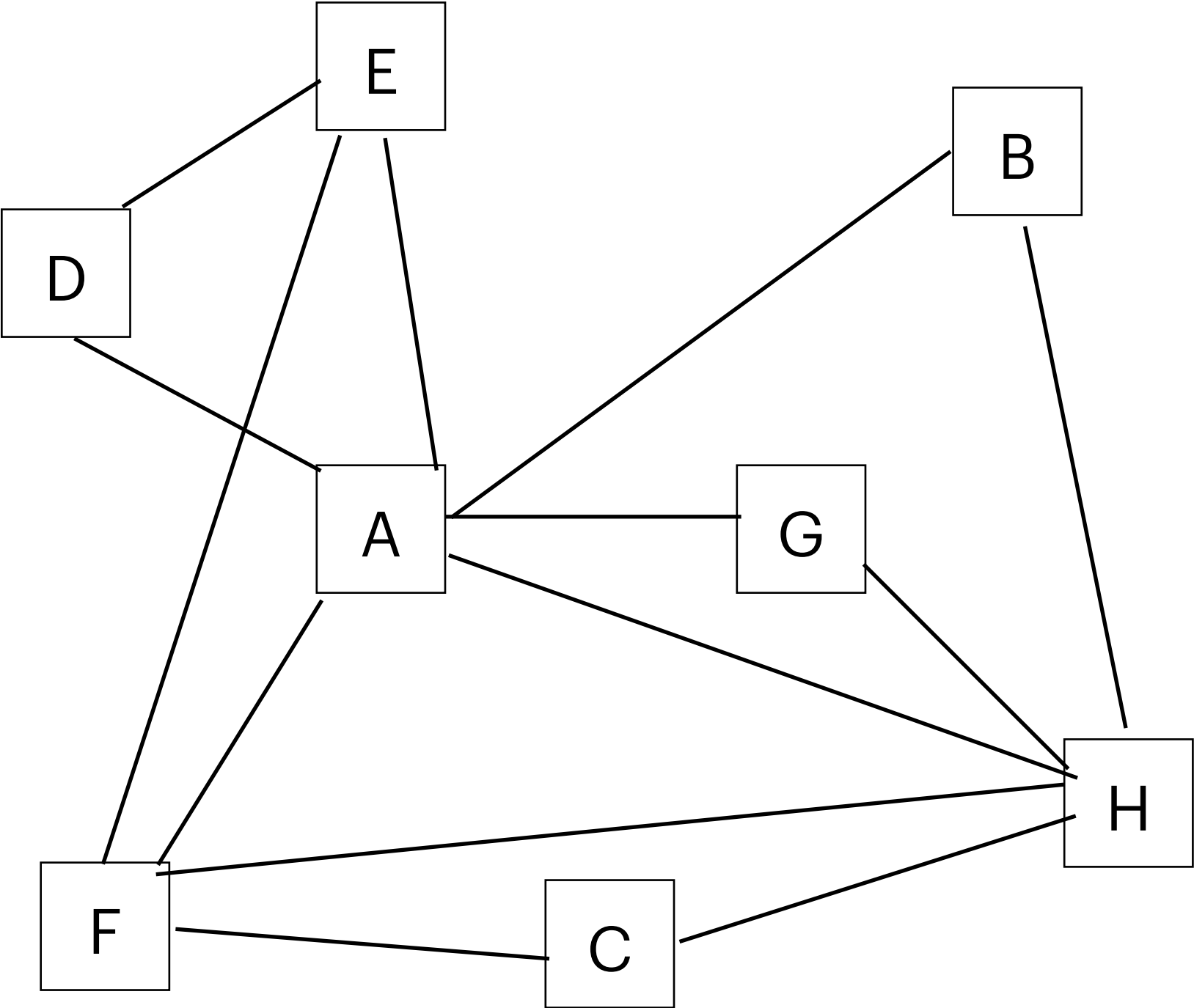a) Cliques and Separators

Topological Ordering:
  F,E,B,A,D,H,G,C

Reverse Topological Ordering:
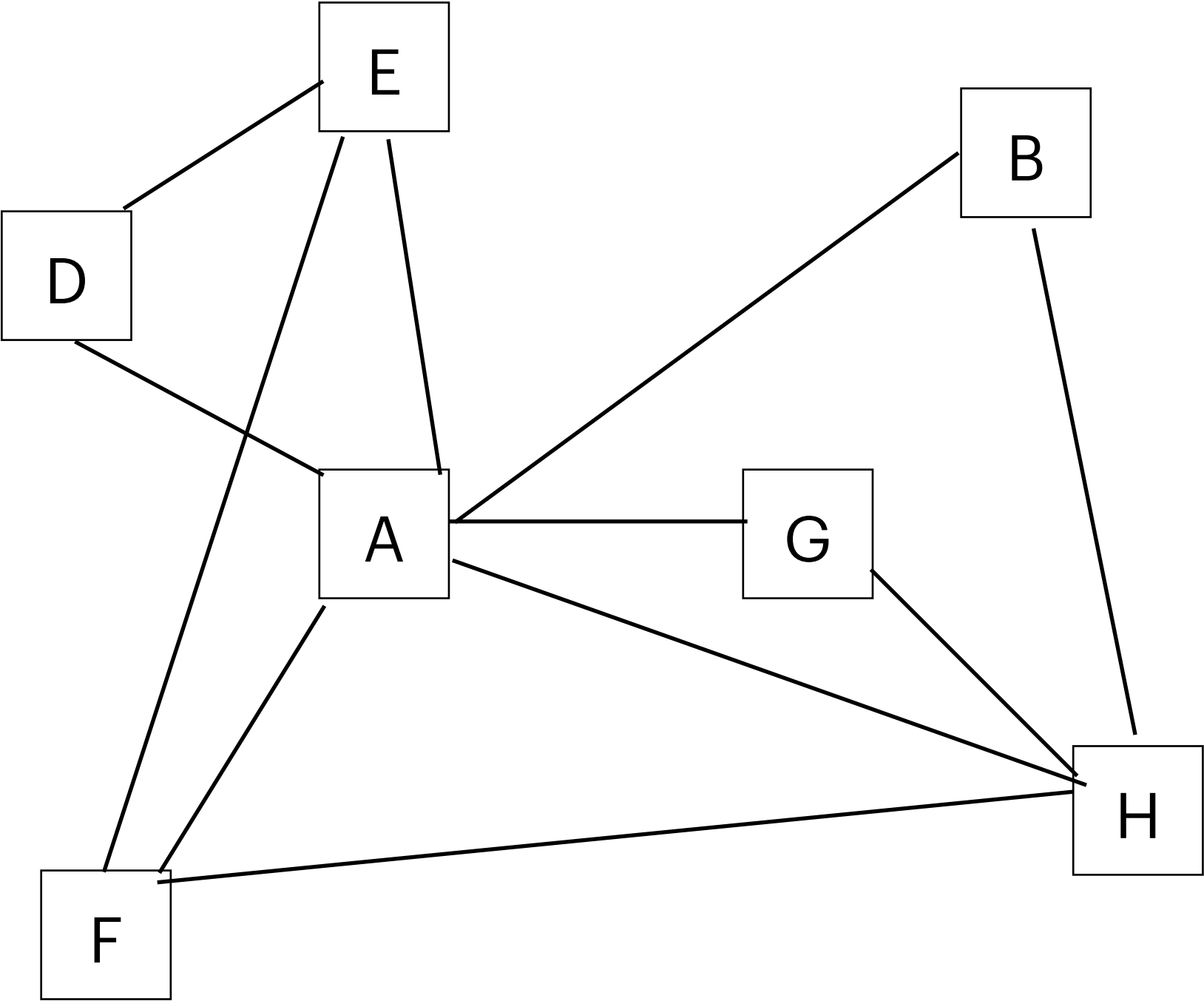 C,G,H,D,A,B,E,F

Reverse Topological Ordering:
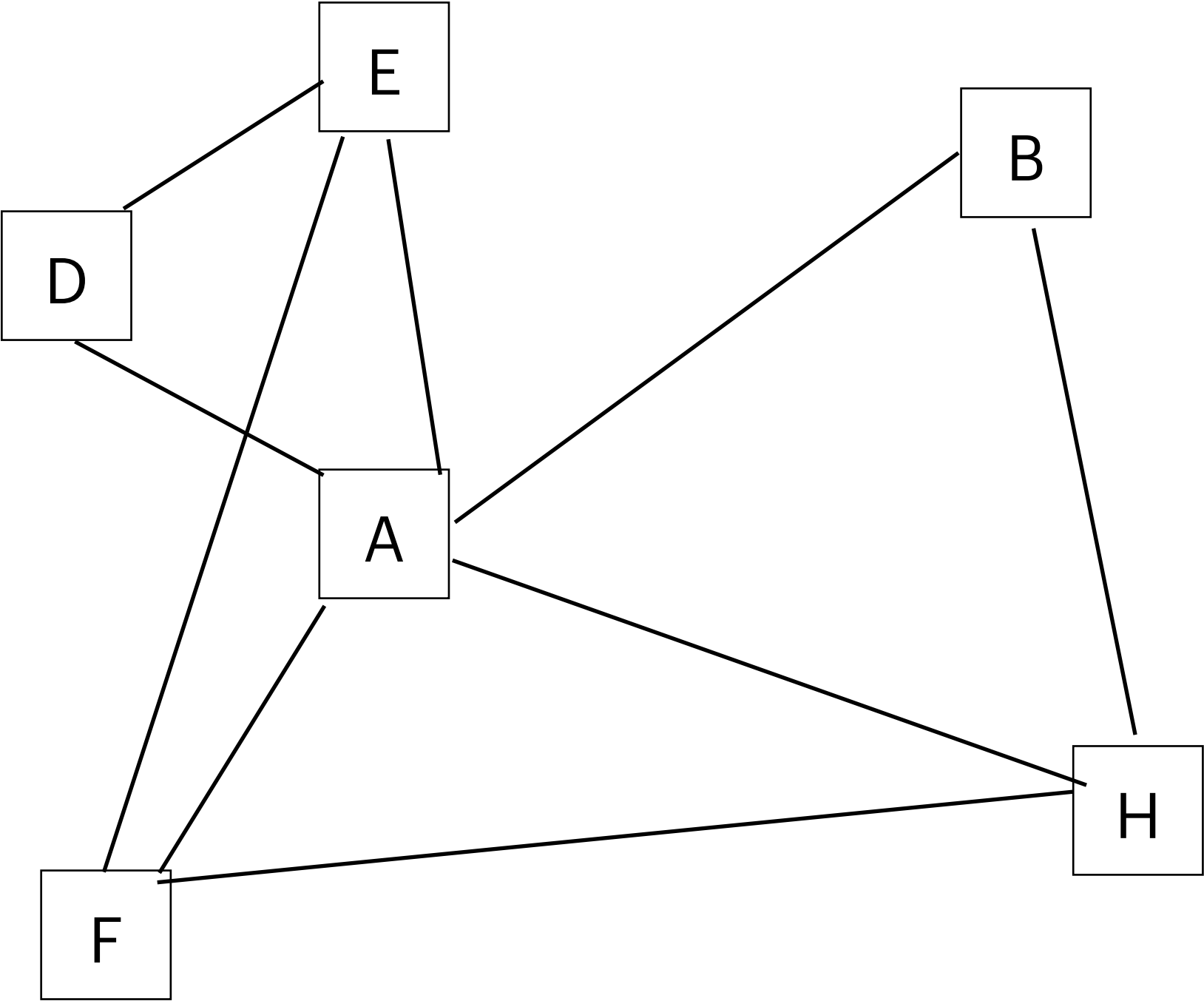C,G,H,D,A,B,E,F

Clique: F,C,H -> Delete: C

Reverse Topological Ordering:
C,G,H,D,A,B,E,F

Clique: F,C,H -> Delete: C

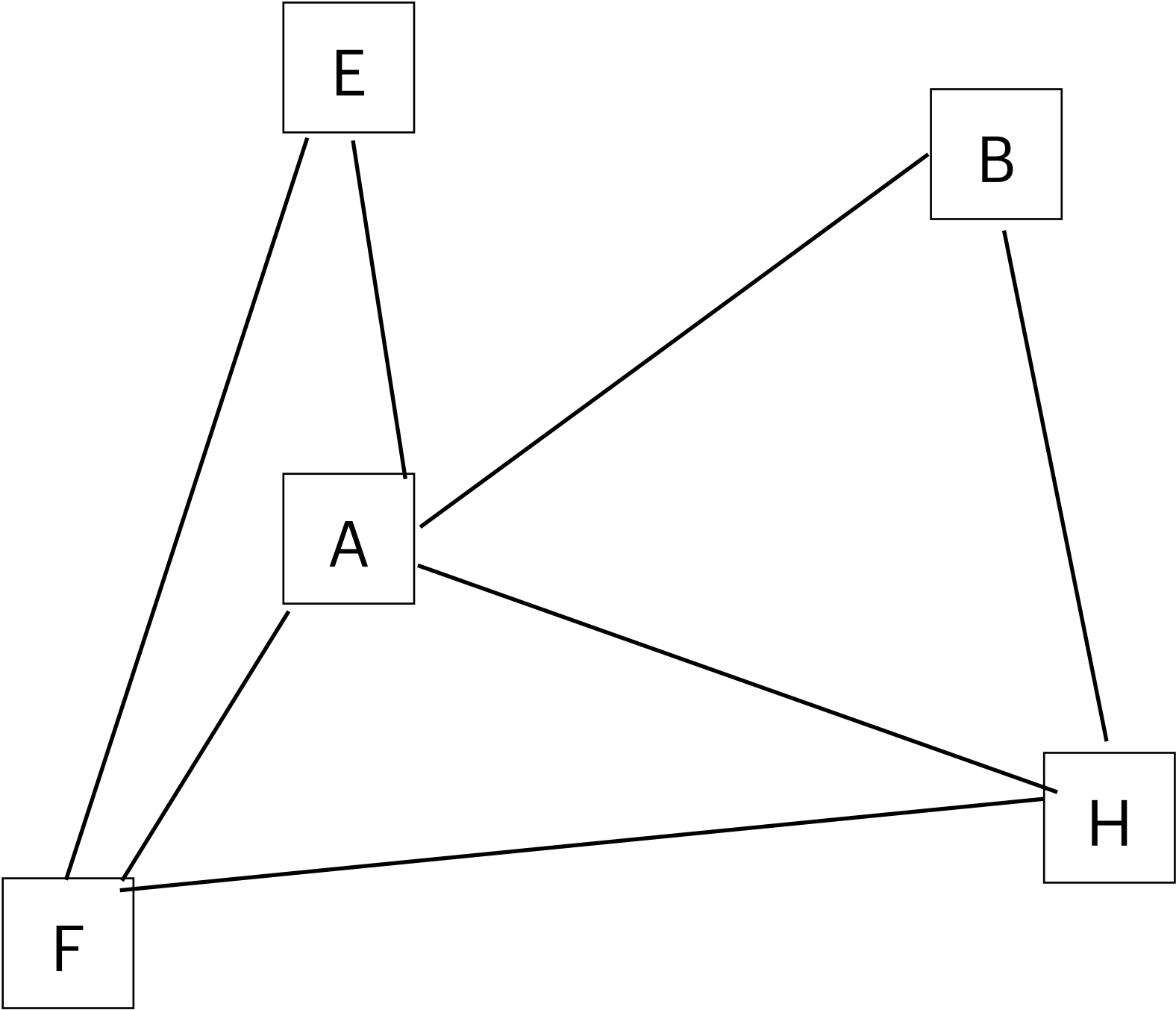Clique: A,G,H -> Delete: G

Reverse Topological Ordering:
C,G,H,D,A,B,E,F

Clique: F,C,H -> Delete: C

Clique: A,G,H -> Delete: G

Clique: D,E,A -> Delete: D

Reverse Topological Ordering:
C,G,H,D,A,B,E,F

Clique: F,C,H -> Delete: C

Clique: A,G,H -> Delete: G

Clique: D,E,A -> Delete: D

Clique: B,A,H -> Delete: B

Reverse Topological Ordering:
C,G,H,D,A,B,E,F

Clique: F,C,H -> Delete: C

Clique: A,G,H -> Delete: G

Clique: D,E,A -> Delete: D

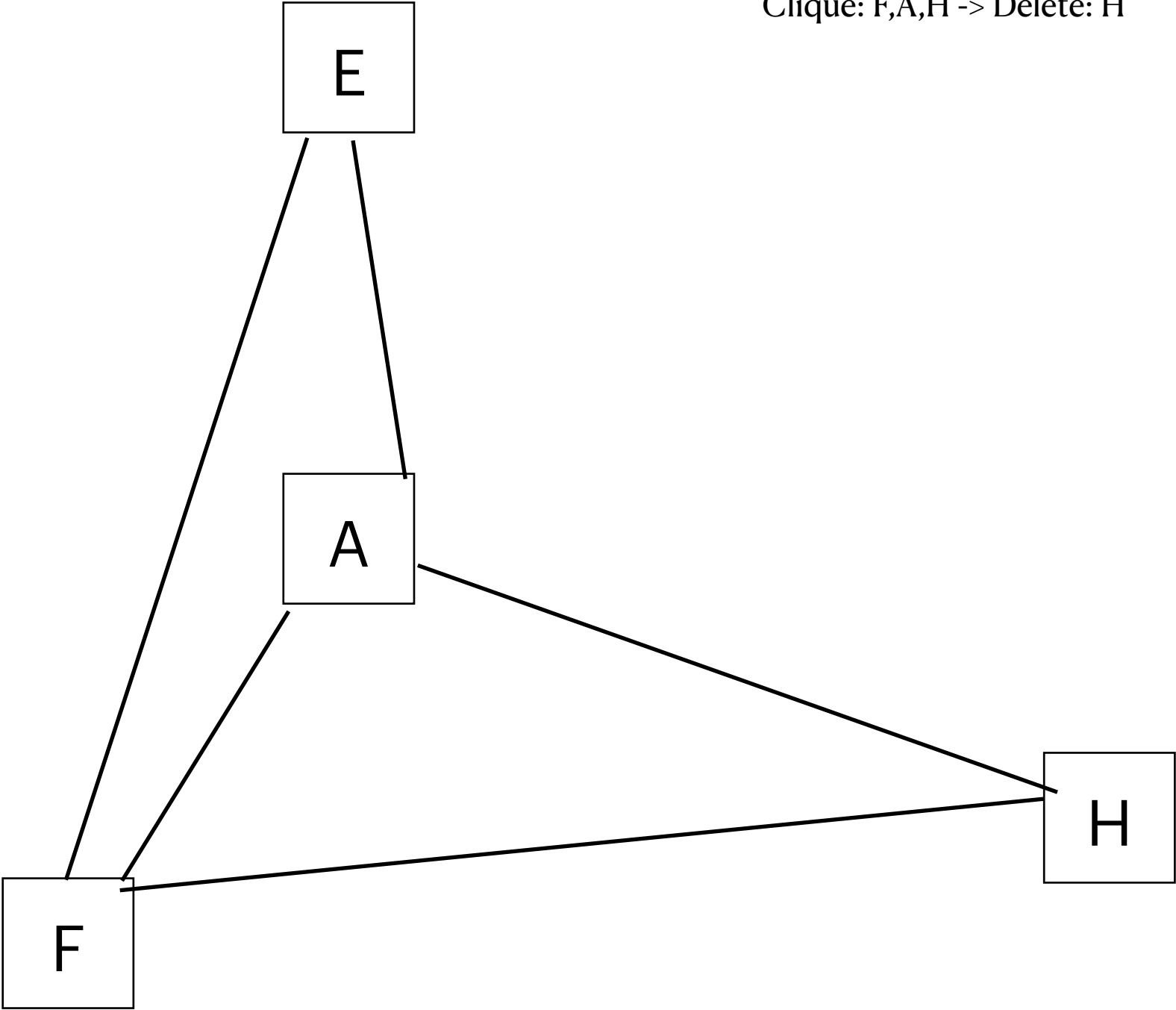Clique: B,A,H -> Delete: B

Clique: F,A,H -> Delete: H

Reverse Topological Ordering:
C,G,H,D,A,B,E,F

Clique: F,C,H -> Delete: C

Clique: A,G,H -> Delete: G

Clique: D,E,A -> Delete: D

Clique: B,A,H -> Delete: B

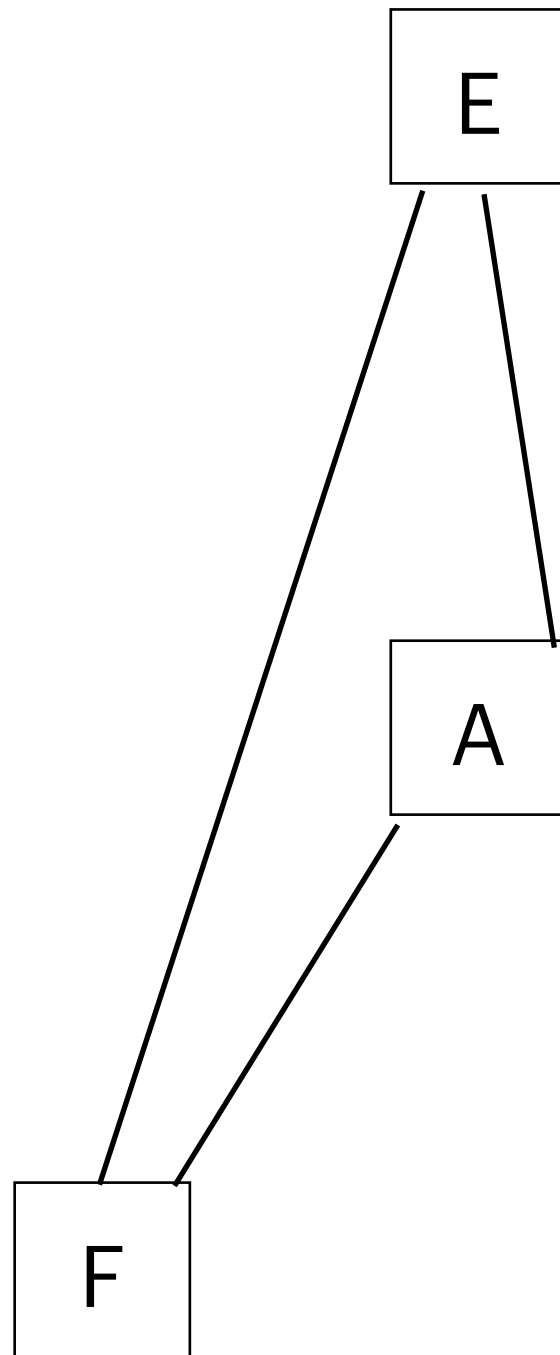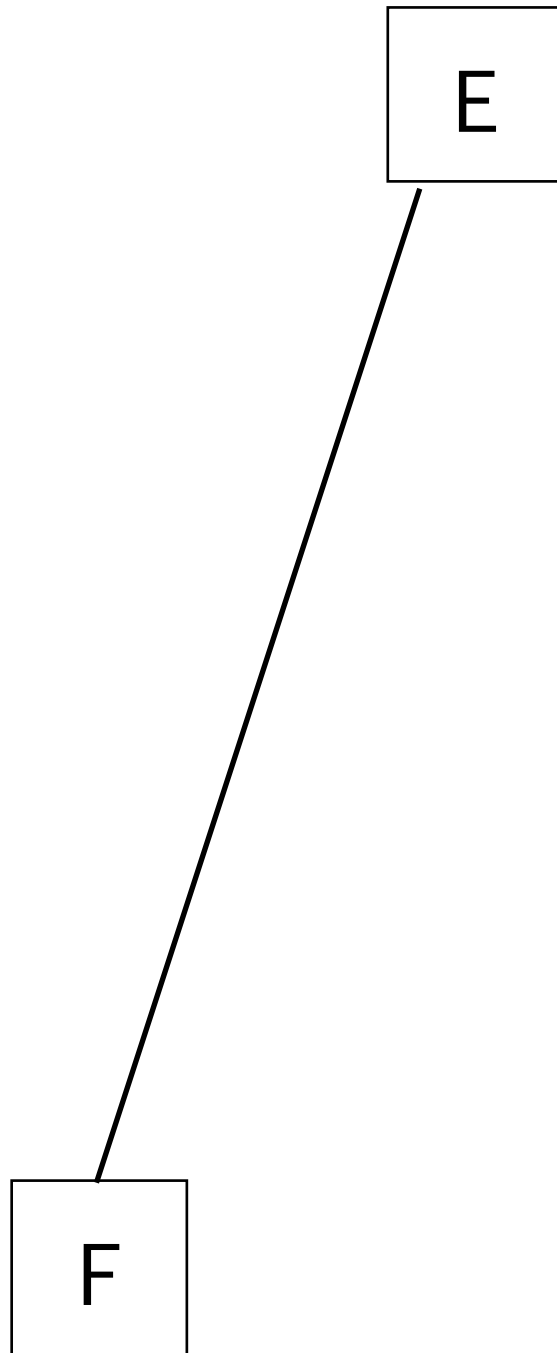Clique: F,A,H -> Delete: H

Clique: E.A.F -> Delete: A

E

A

F

Reverse Topological Ordering:
C,G,H,D,A,B,E,F

Clique: F,C,H -> Delete: C

Clique: A,G,H -> Delete: G
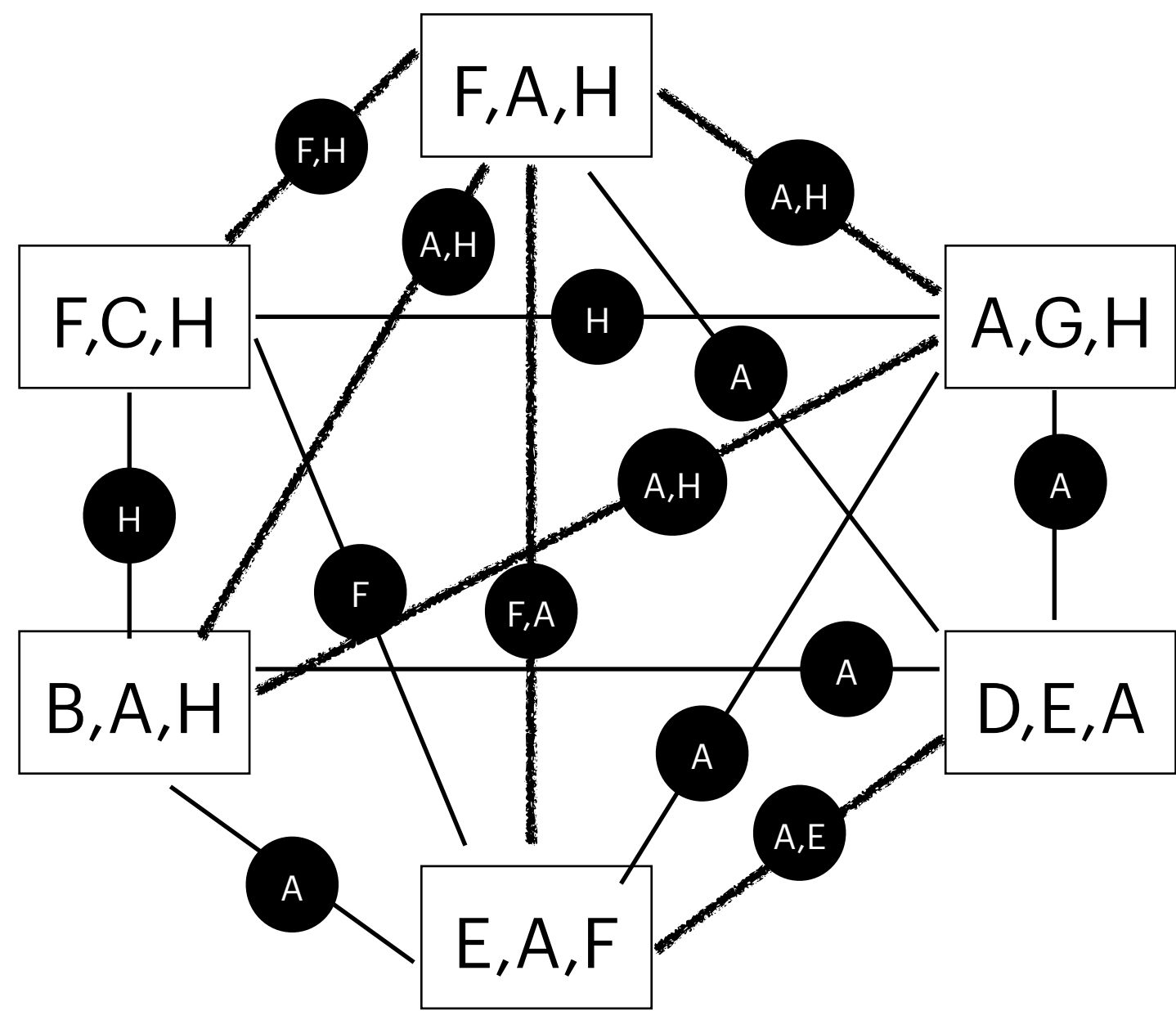
Clique: D,E,A -> Delete: D

Clique: B,A,H -> Delete: B

Clique: F,A,H -> Delete: H

Clique: E,A,F -> Delete: A

E

F

b) Bipartite Graph

Clique: F,C,H -> Delete: C

Clique: A,G,H -> Delete: G

Clique: D,E,A -> Delete: D

Clique: B,A,H -> Delete: B

Clique: F,A,H -> Delete: H

Clique: E,A,F -> Delete: A

c) Junction Tree

C

F,C,H

F,H

B — B,A,H — A,H — F,A,H — A,H — A,G,H — G

F,A

E,A,F

A,E

D,E,A

D