Informal Quiz 4: More Routing, DNS

True or False?

- □ Path-vector based distance vector algorithms have a full map of the network like Link state algorithms
- □ EGP is restricted to a tree topology because it is incapable of comparing paths and therefore would lead to stable loops otherwise.
- □ Currently core routers have about 100000 routes, which suggests poor address aggregation
- □ A stub AS could have traffic neither originating or terminating at the AS.
- □ An ORIGIN attribute of “INCOMPLETE” indicates that the routes were injected dynamically into BGP by IGP.
Informal Quiz 4 (contd)

- The routes in Adj-RIB-Out are likely to be different from Adj-RIB-In because BGP does policy-based route filtering.
- One of the steps of the BGP “tie-breaker” algorithm prefers the lowest ORIGIN attribute because statically injected routes are likely to be more stable than dynamically injected routes.
- The AS path length cannot be used by IBGP because the IBGP connectivity is within a single AS.
- The internet name space is organized in the same way as the address space: driven by topology & routing.
- Responsible DNS servers must support recursive queries.
- The changing of either the IP address or the name leads to an update of DNS.
Informal Quiz 4: More Routing, DNS

True or False?

T  F

☐  √  Path-vector based distance vector algorithms have a full map of the network like Link state algorithms

√  ☐  EGP is restricted to a tree topology because it is incapable of comparing paths and therefore would lead to stable loops otherwise.

√  ☐  Currently core routers have about 100000 routes, which suggests poor address aggregation

☐  √  A stub AS could have traffic neither originating or terminating at the AS.

☐  √  An ORIGIN attribute of “INCOMPLETE” indicates that the routes were injected dynamically into BGP by IGP.
Informal Quiz 4 (contd)

√ □ The routes in Adj-RIB-Out are likely to be different from Adj-RIB-In because BGP does policy-based route filtering.

√ □ One of the steps of the BGP “tie-breaker” algorithm prefers the lowest ORIGIN attribute because statically injected routes are likely to be more stable than dynamically injected routes.

√ □ The AS path length cannot be used by IBGP because the IBGP connectivity is within a single AS.

□ √ The internet name space is organized in the same way as the address space: driven by topology & routing.

□ √ Responsible DNS servers must support recursive queries.

√ □ The changing of either the IP address or the name leads to an update of DNS.