HW4

1. TCP/IP inherently doesn’t care about how to deliver data rather than give “best-effort” service whenever possible to clients. It is hard to change tcp and ip to support QoS since all other protocols must be compatible with it, transparent of service quality, and inelastic rather than elastic for guarantees. This is not only to mention that we can only have so many bits allocated for QoS of which there are a limited number of service levels possible.

Integrated Services try to set aside resources based on explicit or implicit service levels to broadcast to clients’ information about requested and assigned service levels of networks. Process of providing service in this way requires many flows’ information.

Differentiated Services try to assign resources based on priority that is given to packets by the router. Processing of providing services this was requires only information locally available at the router.

1. 1. Flat addresses without hierarchical structure means no more subnetworks, each address has to be unique for every computer ever made.
   2. You could use BGP to route through several devices until you reach the destination since devices would still be linked but some devices may not route to the destination.