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This past week I began learning about Access lists in routers and had the opportunity to compete at the Spring Semester Battle of the Brains. Router handle packets that come in from different interfaces and send them out to their destination out another interface. Routers implement Access Lists, sequential list of permit or deny statements that apply to addresses or upper layer protocols. Access Lists are used to limit the traffic to increase network performance, provide traffic control, provide basic level of security, and minimize routing processes to ensure maximum performance. In Access Lists there are a series of Access Control Entries that check each packet to ensure that the packet is valid or approved for processing. Access Control Entries are composed of a "permit" or "deny" tag for each address with a wildcard mask. Access Lists used for inbound packets is the most effective. It is also important to remember that Access Lists have an implicit deny at the end of the list. In theory, Access Lists increase router processing efficiency, and provide some form of basic security for routers and networks. Also this past week I had the opportunity to compete at the Spring Battle of the Brains contest hosted by UTD. At the event I participated with my team to attempt to solve as many of the given problems in 3 hours in java. Overall, the competition was extremely competitive and a great learning experience not only about code but also about working with a team to create a solution.