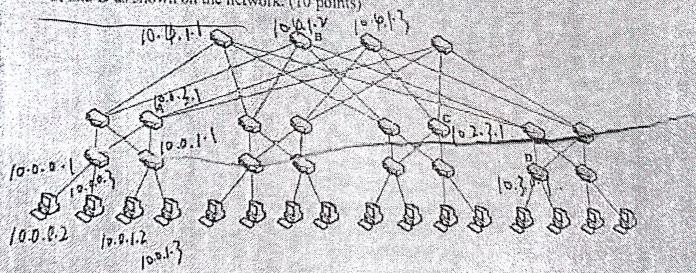
- Which one is NOT the desired property of the datacenter network? (5 points)
  - (1) Scalable interconnection bandwidth;
  - (2) Revolutionary clean-slate architecture;
  - (3) Economies of scale;
  - (4) Backward compatibility
- According to the addressing scheme of Fat Free, give the IP addresses for the switches of A. B.
   C. and D as shown on the network. (10 points)



- 3. Draw a DCell network structure with n=3, k=1, and name each node; (10 points)
- 4. How many layers are there in a software defined network? Where is the OpenFlow located? List at least three OpenFlow flow entry actions, and for each action, explain how the OpenFlow switch will handle a packet that matches the entry? (15 points)

5. Fill the blanks in the script written in the Ethane policy language, so that Rule 1. Members in "students" cannot communicate with each other; (5 points)
Rule 2: Members in "students" can communicate with members in "tutors" using protocol of SSH; (5 points)
Rule 3: Members in "tutors" can communicate with each other; (5 points)
Rule 4: Members in "students" can use HTTP through the "http-proxy" device. (5 points)

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