

- 1) What does a routing algorithm do? Where is the output of a routing algorithm stored?
- 2) What is *switching fabric* in terms of networking? How is it controlled?
- 3) Is it possible to have a queueing delay at the output port of a router? How? What about packet loss?
- 4) Is it possible to have a queueing delay at the input port of a router? How? What about packet loss?

- 5) Given the following routing table:

Prefix Match	Port
10001100 00011011 01011101	0
10001100 00011011 01011101 000	1
10001100 00011011 01011101 01	2
10001100 00011011 01011110 00100	3
Default	4

Use longest prefix matching to determine which output port is used for each IP address

- a. 140.27.93.25
- b. 140.27.94.39
- c. 140.27.95.32
- d. 140.27.93.98
- e. 140.27.93.156