

Tutorial 9 Solution

Question 1

Destination-based forwarding:

Match destination IP address of datagram

Send the packet into the switching fabric to a specified output port

Generalized forwarding:

Match multiple header fields (different protocols, different layers)

Forward the packet to one or more output ports, load-balancing packets across multiple outgoing interfaces, rewrite header values, block the packet, drop the packet, etc.

Question 2

Match	Action
ingress port = 1; IP src = 10.3.*.*; IP dst = 10.1.*.*	forward (2)
ingress port = 2; IP src = 10.1.*.*; IP dst = 10.3.*.*	forward (1)
ingress port = 1; IP dst = 10.2.0.3	forward (3)
ingress port = 2; IP dst = 10.2.0.3	forward (3)
ingress port = 1; IP dst = 10.2.0.4	forward (4)
ingress port = 2; IP dst = 10.2.0.4	forward (4)
ingress port = 4	forward (3)
ingress port = 3	forward (4)