



USE THE DESTINATION ADDRESS  
IN THIS CASE, 3 BITS  $\langle d_2, d_1, d_0 \rangle$

USE  $i$ th BIT OF THE DESTINATION ( $d_i$ )  
TO SELECT UPPER OR LOWER OUTPUT  
PORT FOR STAGE  $n-1-i$

- 0  $\Rightarrow$  UP
- 1  $\Rightarrow$  DOWN

EXAMPLE: ROUTE FROM 4 TO 6

- DESTINATION ADDRESS IS 110
  - DOWN IN STAGE 0
  - DOWN IN STAGE 1
  - UP IN STAGE 2