

Longest Prefix Matching Worksheet

Suppose you are using 8-bit values for addressing in a forwarding table using longest prefix matching. You are given the following table:

Prefix	Link Interface
001	0
00101	1
0	2
1011	0
Otherwise	3

1. For each address below, which link will be selected?

a. 0000 0000

b. 0011 0110

c. 0010 1110

d. 0101 1011

e. 1011 0101

f. 1010 0101

2. What are the ranges in binary for each interface?

Link Interface	Range(s)
0	
1	
2	
3	