



Path vector: $p_{rs}=(l_1, l_2, l_3, l_4)$

$$p_{12}=(1, 0, 0, 0)$$

$$p_{13}=(0, 1, 0, 0)$$

$$p_{14}=(1, 0, 1, 0)$$

$$p_{31}=(0, 1, 0, 0)$$

$$p_{32}=(0, 0, 1, 1)$$

$$p_{34}=(0, 0, 0, 1)$$

$$p_{21}=(1, 0, 0, 0)$$

$$p_{23}=(1, 1, 0, 0)$$

$$p_{24}=(0, 0, 1, 0)$$

$$p_{41}=(0, 1, 0, 1)$$

$$p_{42}=(0, 0, 1, 0)$$

$$p_{43}=(0, 0, 0, 1)$$