

$$\begin{aligned}
 G &= (V, E) \\
 V &= \{1, 2, 3, 4\} \\
 E &= \{12, 23, 34, 41, 13\} \\
 \ell_1(12) &= \ell_1(23) = \ell_1(34) = \ell_1(41) = \ell_1(13) = 1 \\
 \ell_2(12) &= \ell_2(23) = 1, \ell_2(13) = \ell_2(34) = \sqrt{2}, \ell_2(41) = 2
 \end{aligned}$$

