$$\begin{array}{lll} Q & 1 & \sum d(u_i) = 2(n-1) & \text{where} & n = \sum_{i=1}^{k} n_i \\ \sum d(u_i) = n_1 + 2n_2 + \dots + kn_k = 2(n_1 + \dots + n_k - 1) \\ n_1 + 2n_2 + 3n_3 + \dots + kn_k = 2n_1 + 2n_2 + \dots + 2n_k - 2 \\ n_1 = n_3 + 2n_4 + \dots + (k-2) n_k + 2 \end{array}$$

Q2 如穩最收道路兩端点不是树叶至少1个不是树叶 则有

Vi的所有相邻点都在最长道路上 上图中(以2)构成回路,图G不再是树

Q3
$$d_1 = 2n - 2$$
 subject to $d_1 \ge 1$ $d_1 = 1$

$$\frac{d_2 = 2n - 2}{2d_1 = 2n - 2}$$

$$d_2 = \frac{2}{2}d_1 - d_1 = 2n - 2 - 1 = 1$$
for $d_1 = 2n - 2$

$$d_2 = \frac{N}{2}d_1 - \frac{N}{2}d_1 - \frac{N}{2}d_1$$

$$= 2d_1 = 2n - 2$$

$$=$$

这些树都是

 $\left|\frac{V-\left\{V_{1},V_{2}\right\}}{V_{1}}\right|=\frac{0\text{ to }n-2}{V_{1}}$ V_{1} V_{2} $\left|V(G)-\left\{v_{1},V_{2}\right\}\right|=\frac{1}{V_{2}}$ from 0 to n-2

$$P_{0}^{n-2} + C_{1}^{n-2} + \dots + C_{n-2}^{n-2} = \frac{(n-2)!}{0!} + \frac{(n-2)!}{1!} + \frac{(n-2)!}{(n-2)!}$$

$$(n-2)! \left[\frac{1}{0!} + \frac{1}{1!} + \frac{1}{2!} + \dots + \frac{1}{(n-2)!} \right]$$

$$? ? ?$$

若要用上
$$V$$
中所有结点,而且 $V_i - V_i$ $V_j - V_i$

不是很清楚结点间的顺矮序是否有关系