



$r[a]++;$

$r[b]++;$

$r[lca(a, b)]--;$

$r[p[lca(a, b)]]--;$

max post order

$$a \wedge b = c$$

$$c \wedge b = a$$

$$c \wedge a = b$$

$$a \wedge b$$

$$1 \wedge 3$$

$$a_1 \wedge a_2 \wedge a_3$$

$$a_1 - a_2 - a_3 - a_4 - a_5$$

$$a_1 \geq a_1 \wedge a_3 \wedge a_2 \wedge a_4$$

$$\begin{array}{c} a_{1,3,2} \\ \swarrow \quad \searrow \\ x/ \quad x \\ a_3 \quad a_2 \end{array}$$