

SRLG:

$$AP = \{e_1, e_2, e_3, e_4, e_5\}$$

$$R_{r1} = \{e_1, e_6, e_8\}$$

$$R_{r2} = \{e_3, e_{12}\}$$

$$ER = \{e_8, e_6, e_{12}, e_{10}\}$$

$$R_{r3} = \{e_4, e_{10}\}$$

$e_i(x)$ ,  $x$  is weight of edge  $e_i$ .

