

$$\Sigma = \{a, b\}$$

$$ER = a(ba)^*a^*$$

$$a \rightarrow \rightarrow \text{start} \xrightarrow{a} \text{end}$$

$$ba \rightarrow \rightarrow \text{start} \xrightarrow{b} \text{state} \xrightarrow{a} \text{end}$$

$$(ba)^* \rightarrow \rightarrow \text{start} \xrightarrow{\epsilon} \text{state} \xrightarrow{b} \text{state} \xrightarrow{\epsilon} \text{state} \xrightarrow{a} \text{state} \xrightarrow{\epsilon} \text{end}$$

$$a^* \rightarrow \rightarrow \text{start} \xrightarrow{\epsilon} \text{state} \xrightarrow{a} \text{state} \xrightarrow{\epsilon} \text{end}$$

$$a(ba)^*a^*$$

