



Automaton

$$\varphi : \{a, b\}^* \rightarrow \mathbb{Z}/2\mathbb{Z}$$

$$\varphi(a) = 1, \varphi(b) = 0$$

$$F = \{0\}$$

	0	1
0	0	1
1	1	0

Semigroup

$$(b^*ab^*ab^*)^*$$

Regular Expression