Automata
HW3.

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①

$M_1 : (1\Sigma^* 1) \cup 1 \cup (0 \Sigma^* 0)$

Last and first ~~both~~ alphabet should be same if > 1.

$M_2 : (00) \cup (\emptyset^* \mathbb{1}^* \emptyset^\times)$

②

a) $(a \Sigma^* aa) \cup (b \Sigma^* bb) \cup (c \Sigma^* cc)$ or we could do $(\Sigma^* aa) \cup (\Sigma^* bb) \cup (\Sigma^* cc)$

b) $\Sigma^* c \Sigma^* c$

③