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3. 对于$M_1 = (Q_1, \sum_1, \delta_1, q_{0_1}, F_1)$，$M_2 = (Q_2, \sum_2, \delta_2, q_{0_2}, F_2)$，则令

$Q = \{(x,y)|x \in Q_1, y \in Q_2\}$，$\sum = \sum_1 \cap \sum_2$，$\delta((x,y),z) = (\delta_1(x,z), \delta_2(y,z))$

$q_0 = (q_{0_1}, q_{0_2})$，$F = \{(x,y)|x \in F_1, y \in F_2\}$

则$M = (Q, \sum, \delta, q_0, F)$可以接受的语言为$L(M_1) \cap L(M_2)$