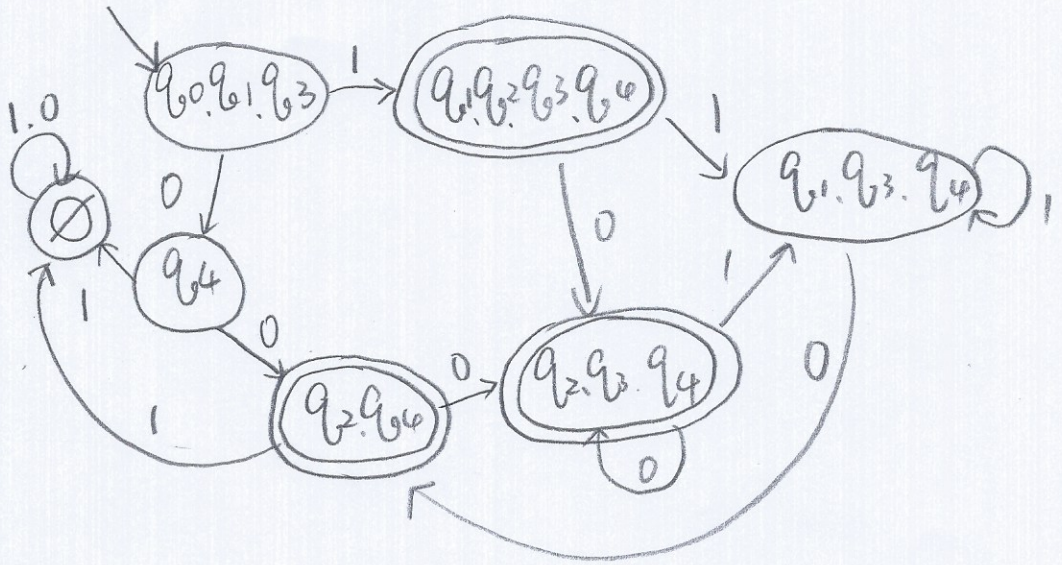
4. NFA to DFA



5 ① group states by outputs

① [1]: q_0, q_1, q_2, q_5, q_6

② [0]: q_3, q_4

2. Split group ① by "0"

③ $q_1 \xrightarrow{0} q_5$ $q_6 \xrightarrow{0} q_5$ $q_2 \xrightarrow{0} q_5$ (in ①)

④ $q_0 \xrightarrow{0} q_4$ $q_5 \xrightarrow{0} q_3$ (in ②)

3. Split group ② by "1"

⑤ $q_4 \xrightarrow{1} q_5$ (in ④)

⑥ $q_3 \xrightarrow{1} q_2$ (in ③)

4. Split group ④ by "0"

⑦ $q_0 \xrightarrow{0} q_4$ (in ⑤)

⑧ $q_5 \xrightarrow{0} q_3$ (in ⑥)

∴ finally we have 5 different groups.
So we have 5 different states in ~~DFA~~ minimized

③ q_1, q_2, q_6

④ ⑤ q_4 ⑥ q_3

⑦ q_0 ⑧ q_5

∴ we have