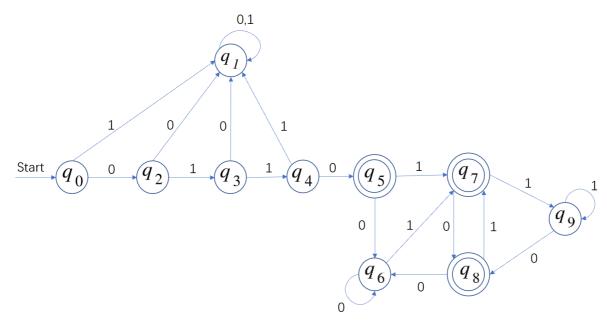
1. 根据题意可得集合 $A=\{arepsilon,\Phi,\{\Phi\},\{\Phi,\Phi\}\}$ 的幂集如下

$$\begin{split} P(A) = &\{\emptyset, \{\Phi\}, \{\varepsilon\}, \{\{\Phi\}\}, \{\{\Phi, \Phi\}\}, \{\varepsilon, \Phi\}, \{\varepsilon, \{\Phi\}\}, \{\varepsilon, \{\Phi, \Phi\}\}, \{\Phi, \{\Phi\}\}\}, \{\Phi, \Phi\}\}, \{\{\Phi, \Phi\}\}, \{\{\Phi, \Phi\}\}, \{\{\varepsilon, \Phi, \{\Phi\}\}\}, \{\varepsilon, \Phi, \{\Phi\}\}\}, \{\varepsilon, \{\Phi\}, \{\Phi, \Phi\}\}, \{\{\Phi, \Phi\}\}\}, \{\{\Phi, \Phi\}\}\}, \{\{\Phi, \Phi\}\}\}, \{\{\Phi, \Phi\}\}\} \end{split}$$

2. 根据题意绘制出如下DFA



3. 根据题意绘制出如下DFA

