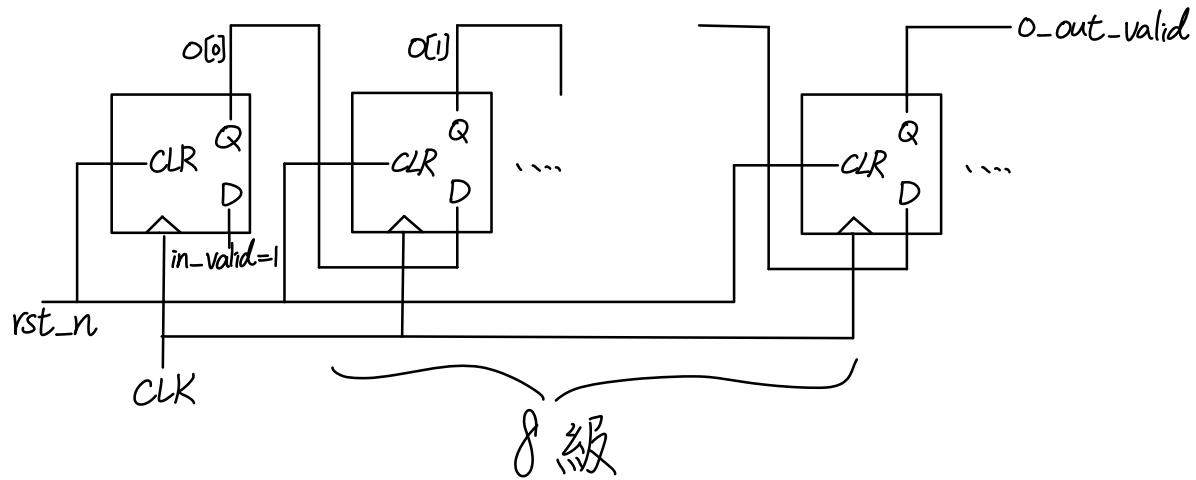
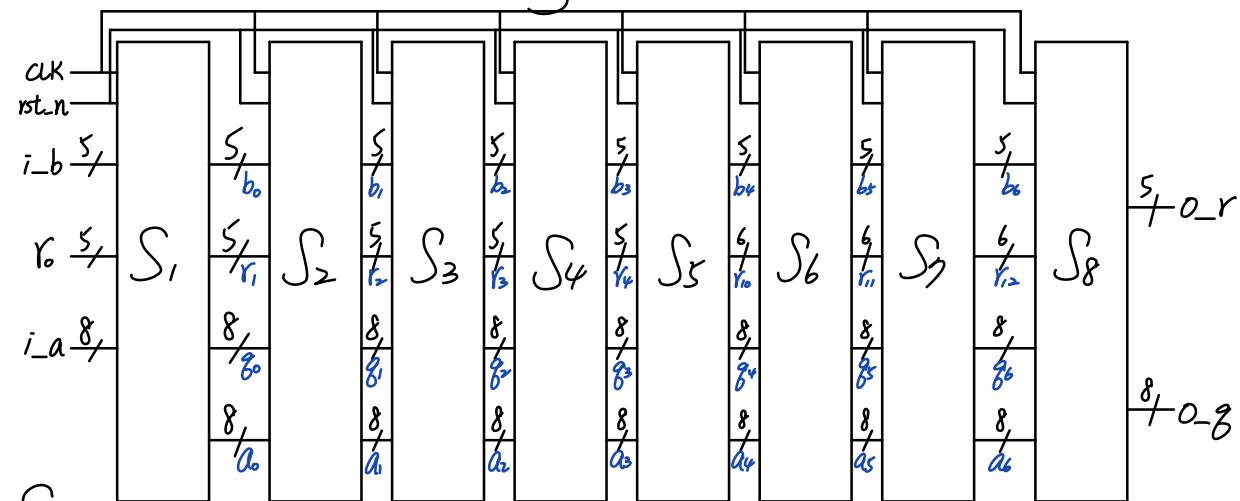


學號：b08502141 姓名：石旻翰 系級：電機三

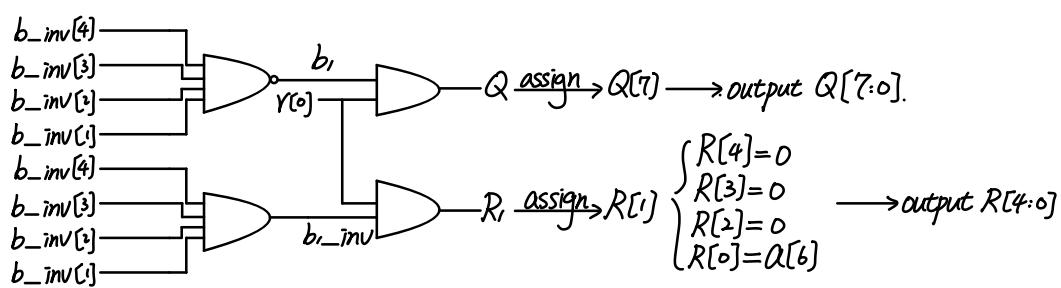
o_{out_valid} :



$S_1 \sim S_8$ Outline. (Assign $r_o = \{4'b0000, i_a[7]\}$.)

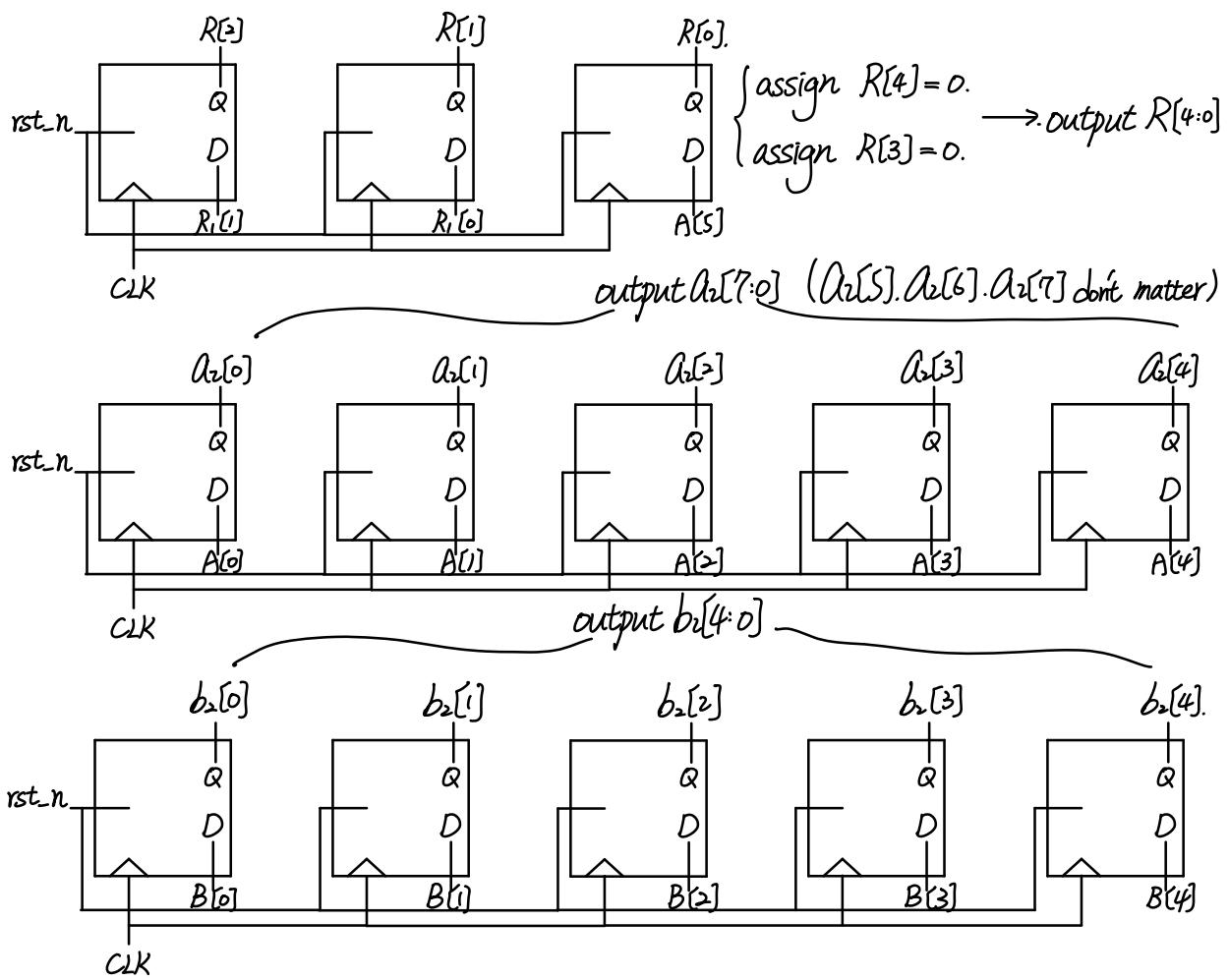
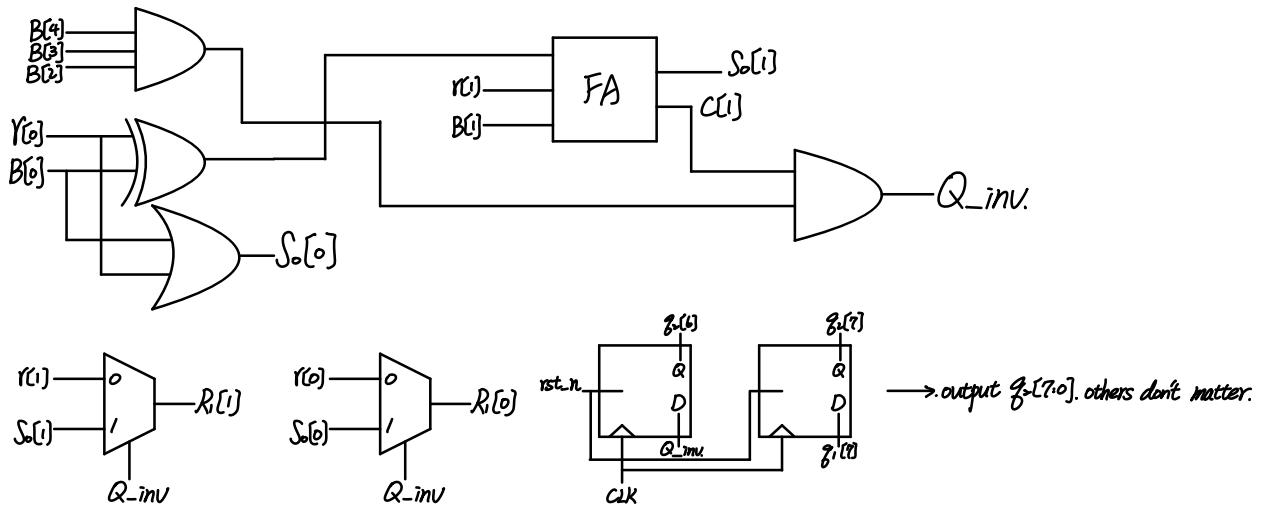


S_1 :
 $b \xrightarrow{b_{inv}} b_{inv} \xrightarrow{assign} b_s \rightarrow \text{output } b_s$

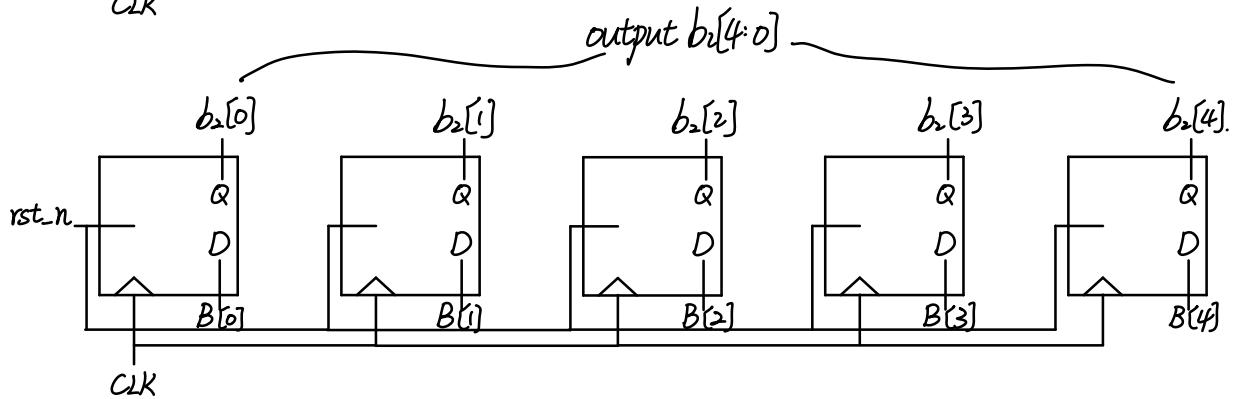
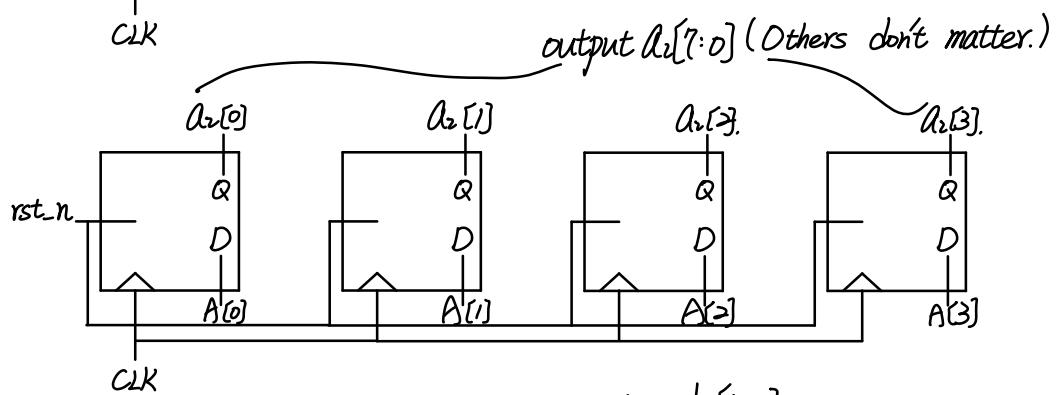
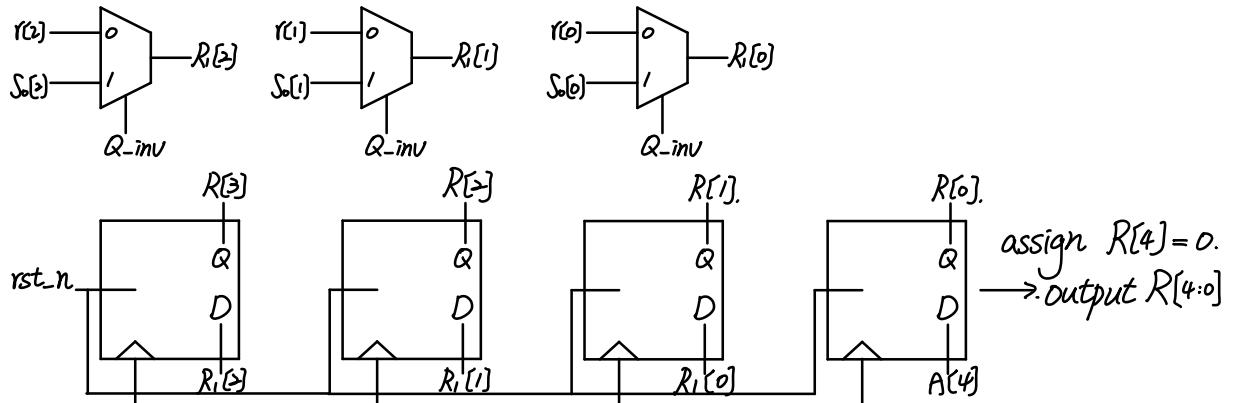
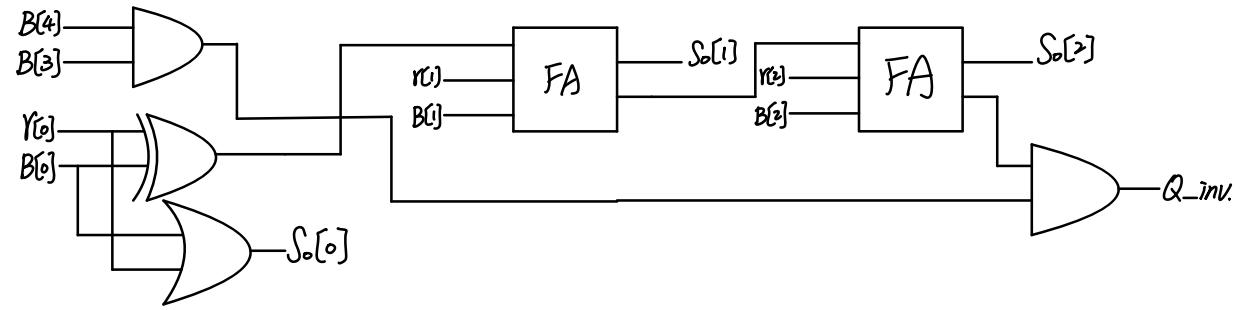


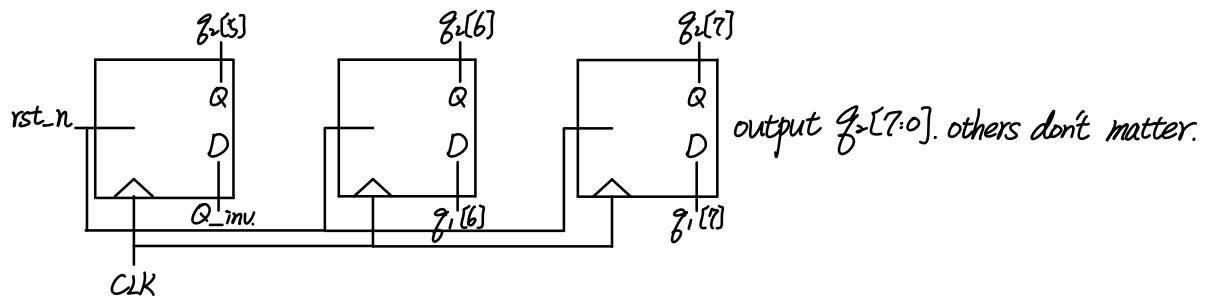
$a[7:0] \xrightarrow{\text{assign}} a_s[7:0] \rightarrow \text{output } a_s$

S_2 :

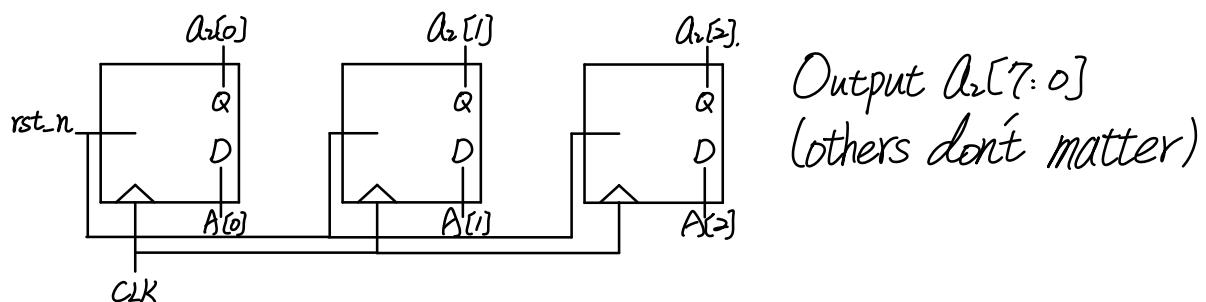
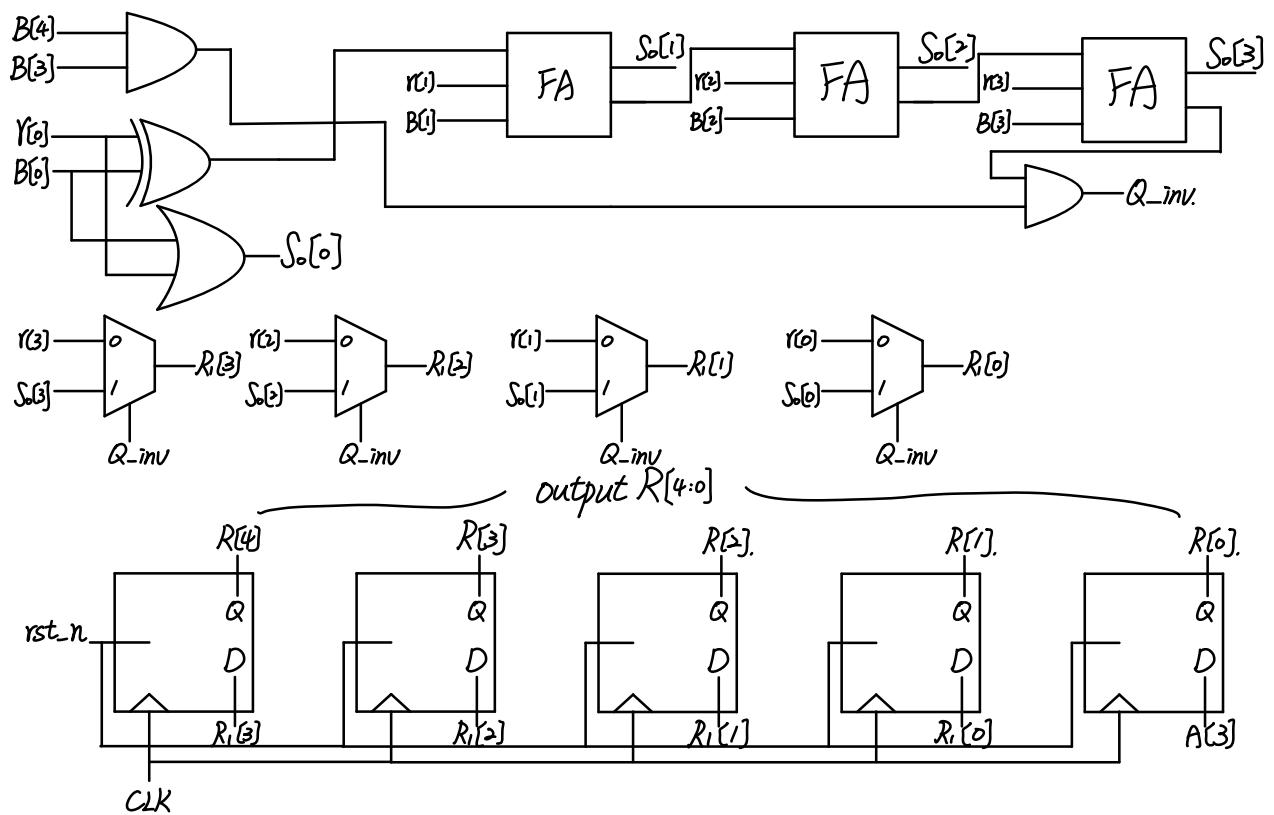


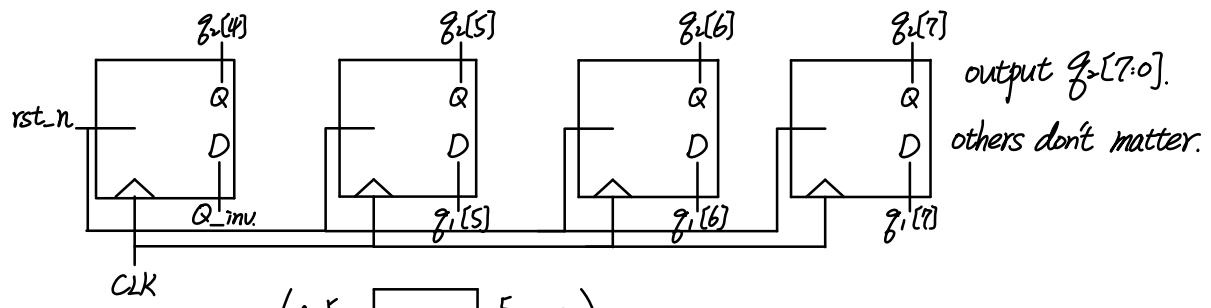
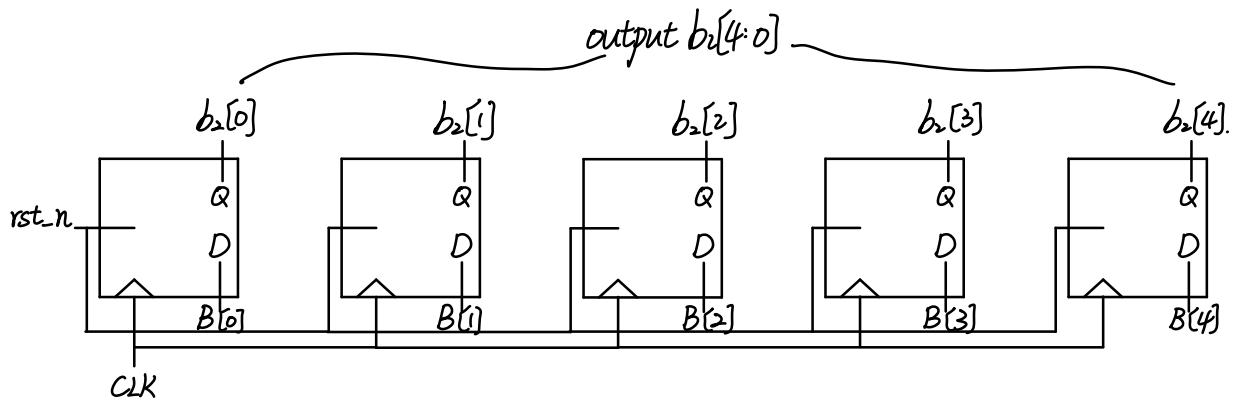
S_3 :



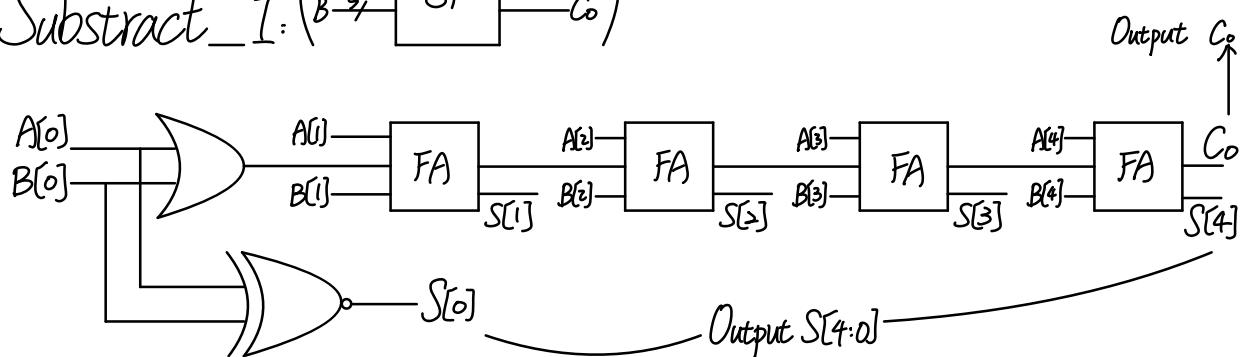


S_4 :

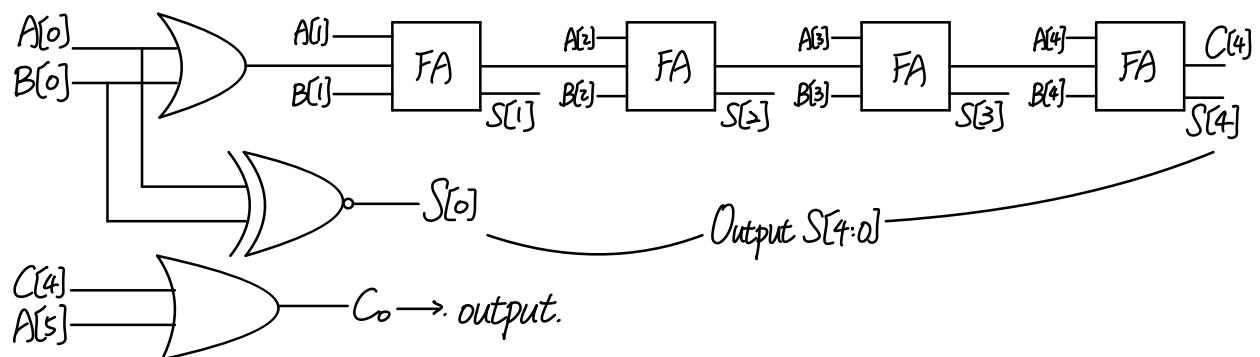




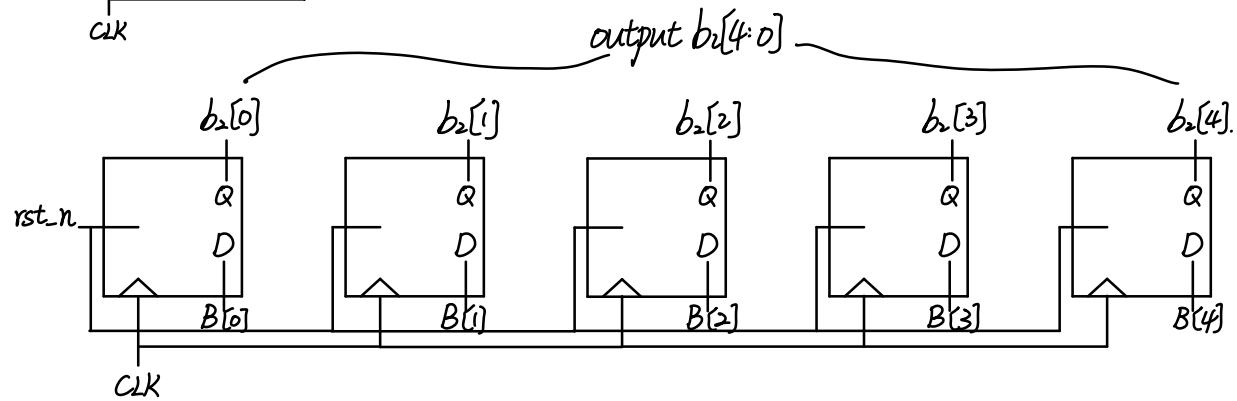
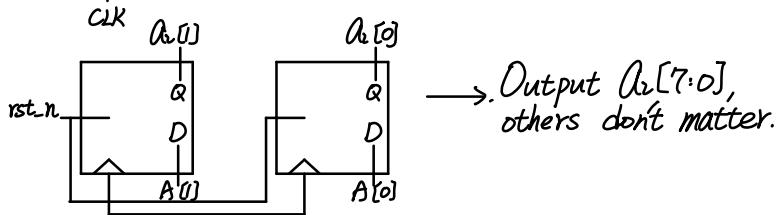
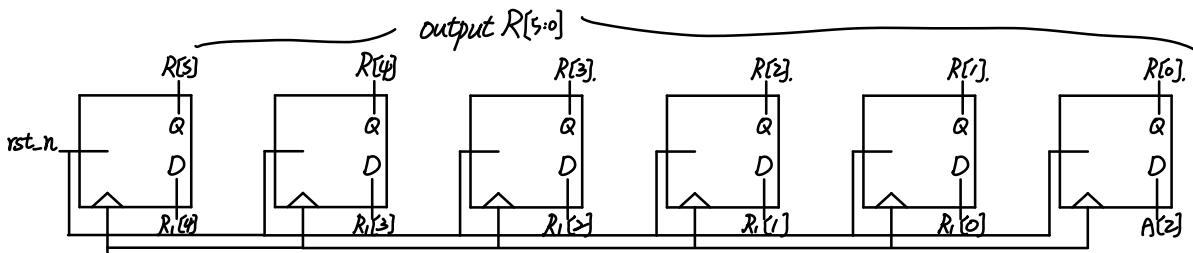
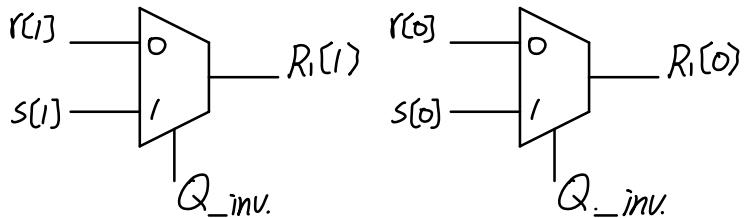
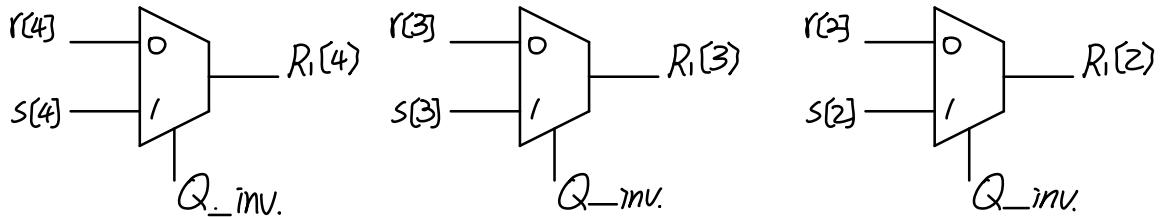
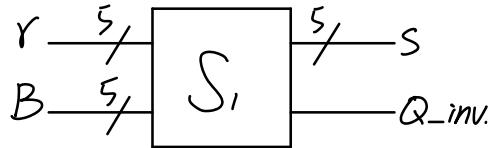
Subtract_1: $(A \begin{smallmatrix} S \\ B \end{smallmatrix} \rightarrow S_1 \rightarrow S \begin{smallmatrix} C_o \\ 0 \end{smallmatrix})$

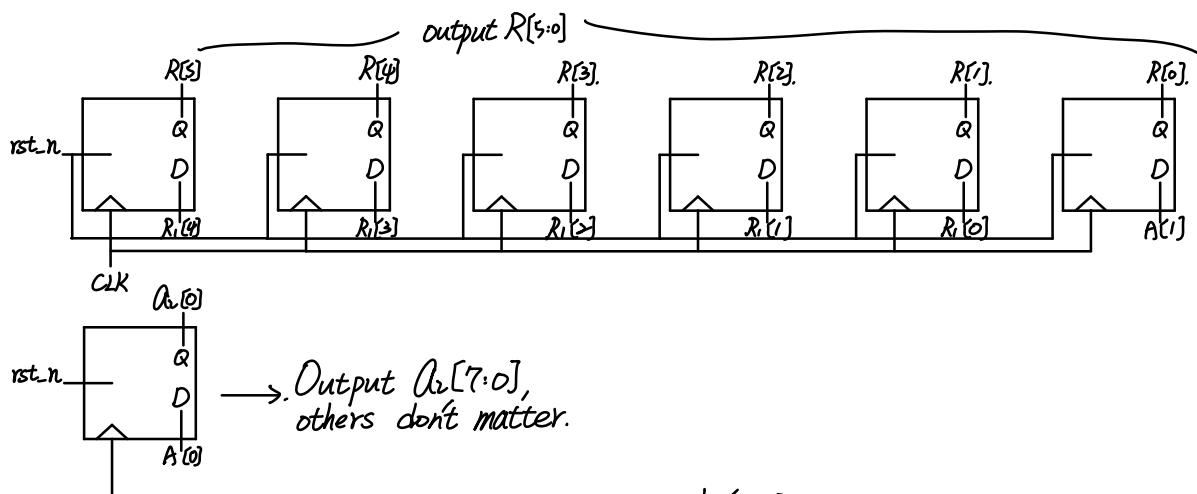
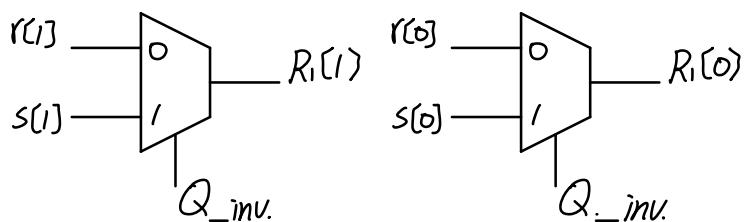
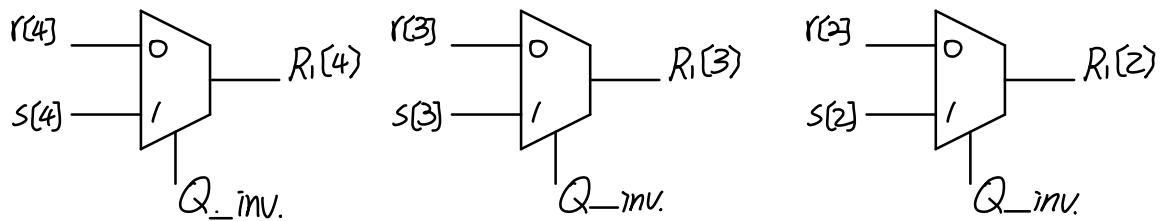
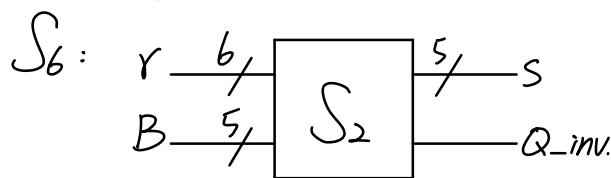
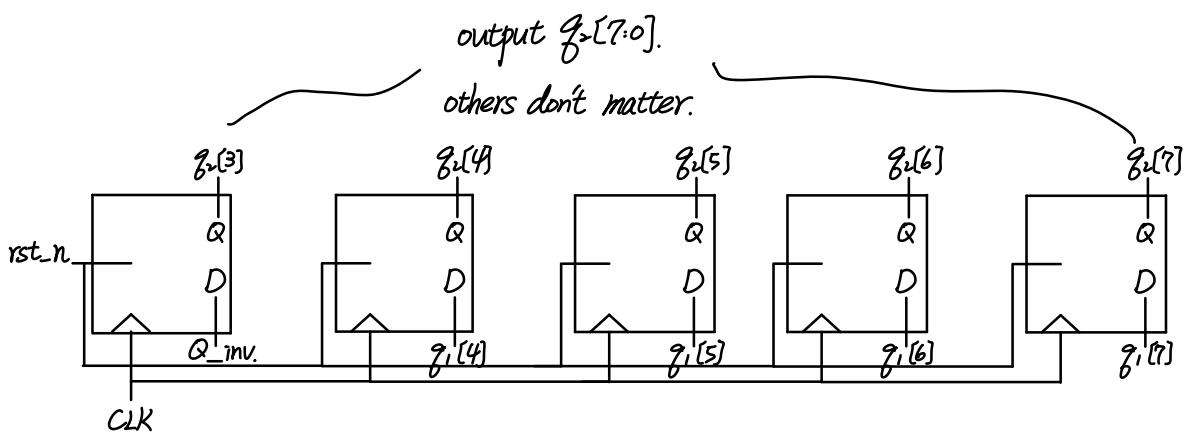


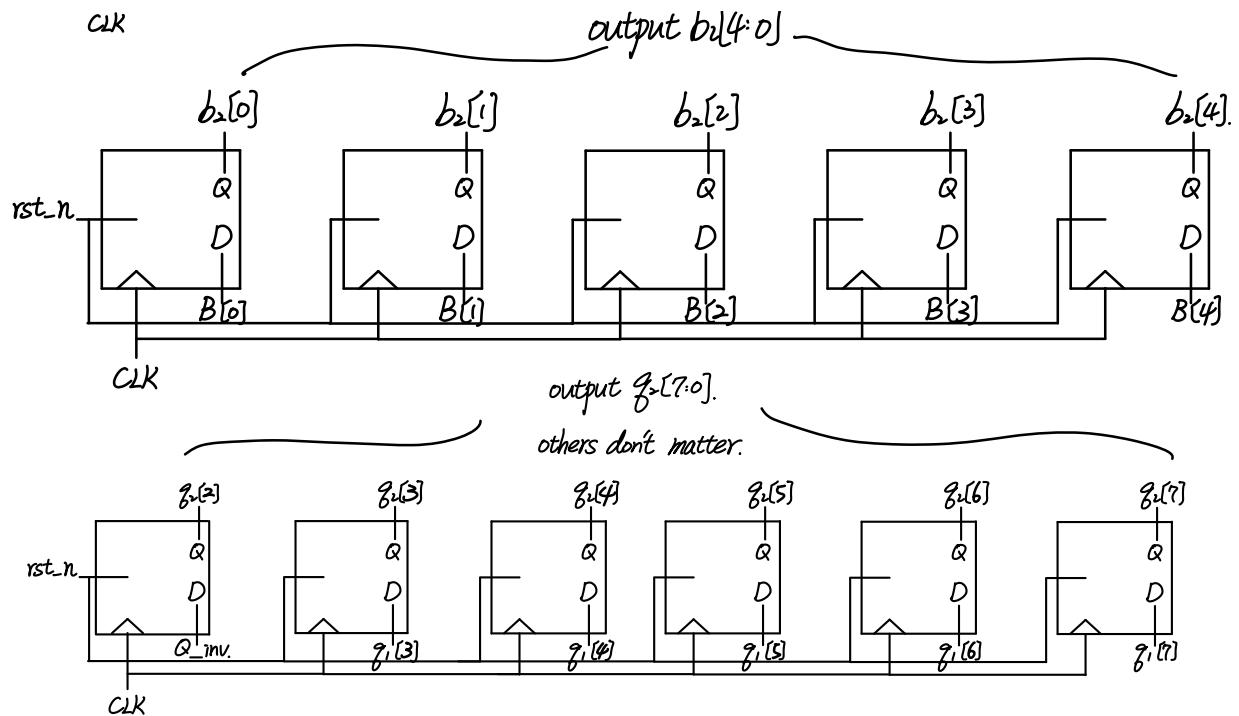
Subtract_2: $(A \begin{smallmatrix} S \\ B \end{smallmatrix} \rightarrow S_2 \rightarrow S \begin{smallmatrix} C_o \\ 0 \end{smallmatrix})$



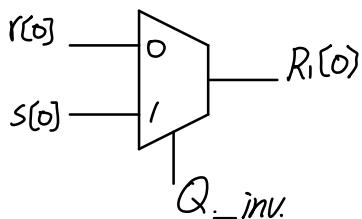
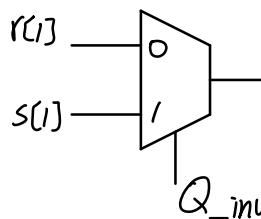
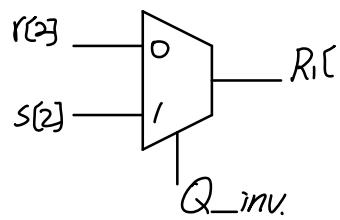
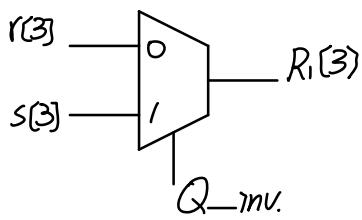
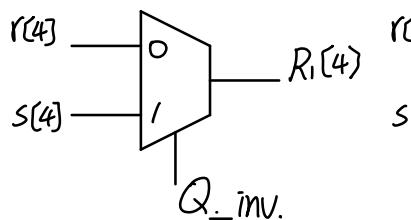
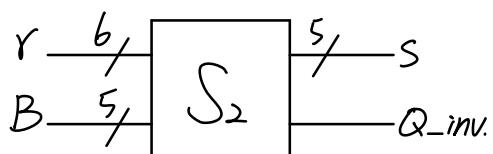
S_5 :







S_7 :



Output $A_2[7:0]$, all don't matter.

