

$$I \qquad \text{AND gate} \qquad A = I\bar{S}_1\bar{S}_0$$

$$S_0 \qquad \text{NOT gate} \qquad \bar{S}_0 \qquad \text{AND gate} \qquad B = IS_1\bar{S}_0$$

$$S_1 \qquad \text{NOT gate} \qquad \bar{S}_1 \qquad \text{AND gate} \qquad C = I\bar{S}_1S_0$$

$$\text{AND gate} \qquad D = IS_1S_0$$

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