

09/19/18  
-1-

$$R'_{f,f} = R_{f,f} \cup (R_{f,st} \cdot R_{st,st}^* \cdot R_{st,f})$$

$$R'_{f,f} = \emptyset \cup (\emptyset \dots) \quad [\emptyset A = \emptyset]$$
$$\boxed{\emptyset \cup A = A}$$

$$R'_{f,i} = R_{f,i} \cup (R_{f,st} \cdot R_{st,st}^* \cdot R_{st,i})$$

$$R'_{f,nf} = R_{f,nf} \cup (R_{f,st} \cdot R_{st,st}^* \cdot R_{st,nf})$$
$$\wedge \quad \cup \quad \emptyset$$

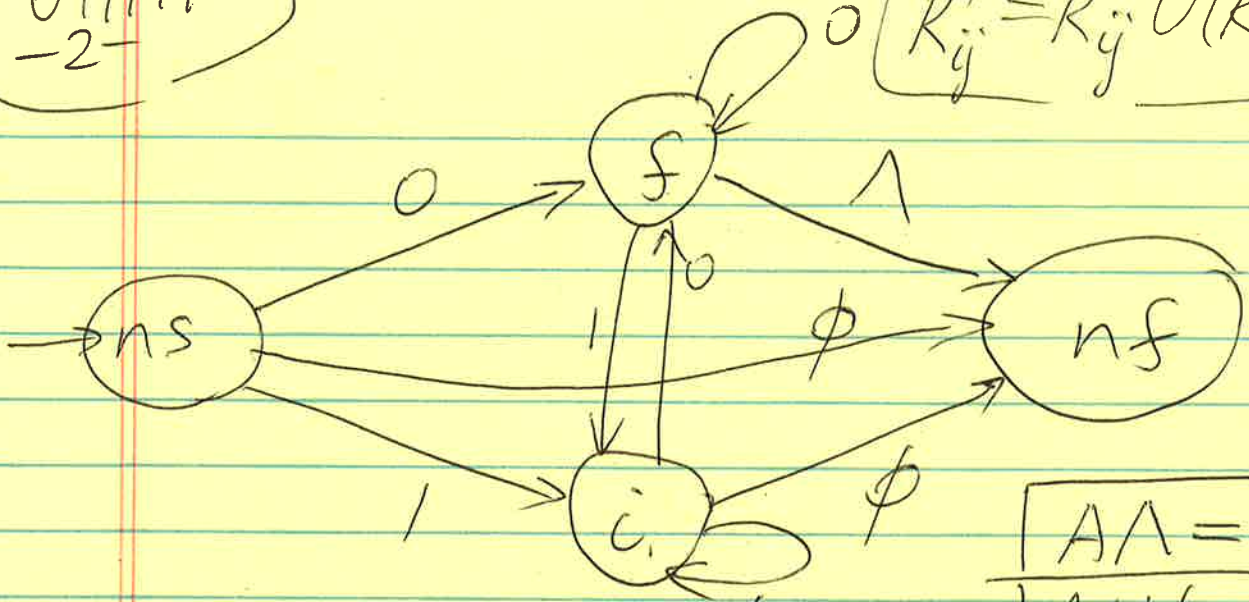
$$R'_{i,f} = R_{i,f} \cup (R_{i,st} \cdot R_{st,st}^* \cdot R_{st,f})$$
$$0 \quad \emptyset \dots$$

$$R'_{i,i} = R_{i,i} \cup (R_{i,st} \cdot R_{st,st}^* \cdot R_{st,i})$$
$$1 \quad \emptyset$$

$$R'_{i,nf} = R_{i,nf} \cup (R_{i,st} \dots)$$
$$\emptyset \quad \emptyset$$

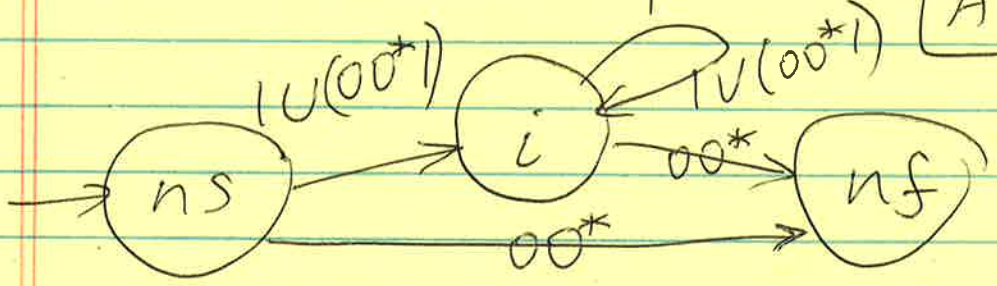
09/19/18  
-2-

$$R'_{ij} = R_{ij} \cup (R_{ik} R_{ku} R_{uj})$$



$$\boxed{A\Lambda = A}$$

$$\boxed{A\cup\phi = A}$$



$$R'_{ns, i} = R_{ns, i} \cup (R_{ns, f} R_{f, f}^* R_{f, i})$$

$$1 \cup (00^*1)$$

$$R'_{ns, nf} = R_{ns, nf} \cup (R_{ns, f} R_{f, f}^* R_{f, nf})$$

$$\phi \cup (00^*\Lambda) = 00^*$$

09/19/18  
-3-

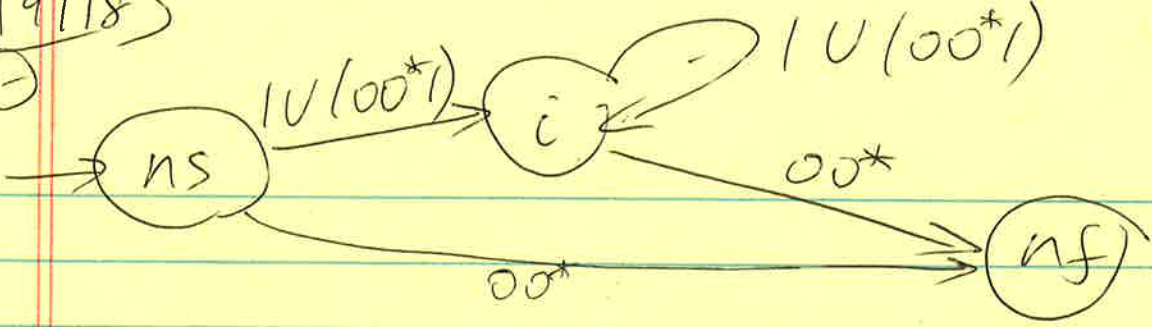
$$R'_{ii} = R_{ii} \cup (R_{if} \ R_{ff}^* \ R_{f,i}) \\ 1 \cup (0 \ 0^* \ 1)$$

$$R'_{i,nf} = R_{i,nf} \cup (R_{if} \ R_{ff}^* \ R_{f,nf}) \\ \emptyset \cup (0 \ 0^* \ \wedge) = 00^*$$



09/19/18

(-4-)



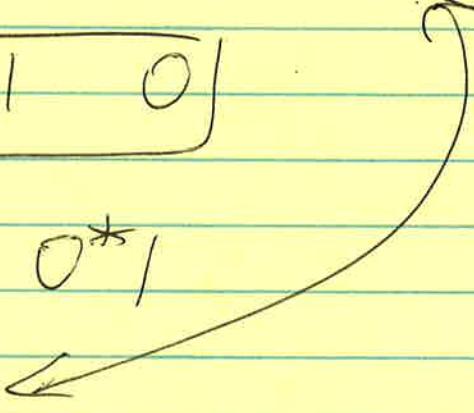
$$R'_{ns, nf} = R_{ns, ns} U (R_{ns, i} R_{ii}^* R_{i, nf})$$

$$00^* U ((1U(00^*1)) (1U(00^*1))^* 00^*)$$

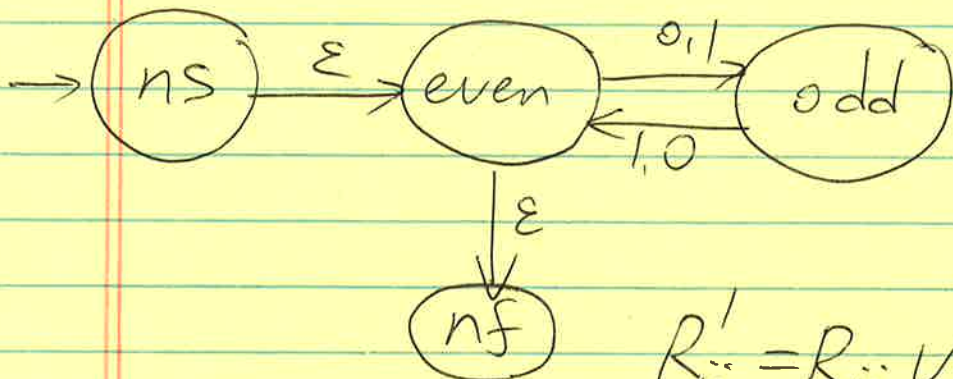
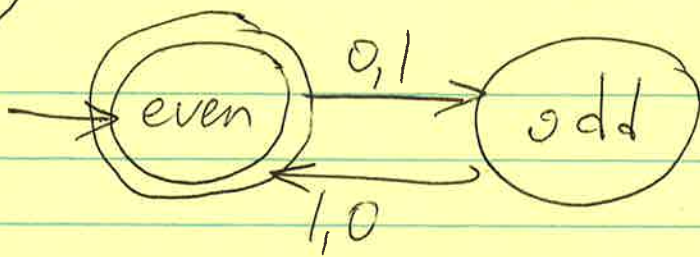
$$\begin{bmatrix} 1 & 1 & 0 \end{bmatrix}$$

$$1U00^*1 \equiv 0^*1$$

$$\boxed{(0U1)^* 0}$$



09/19/18  
-5-



- 1) eliminate odd
- 2) elim. even

$$R'_{ij} = R_{ij} \cup (R_{ik} R_{ku} R_{uj})$$

$$R_{\text{even, odd}} = 0 \cup 1$$

