

$$\begin{array}{l} S\in LS_1,\ldots,S_kS\\ x(\delta^-(S_1))\geq 1\\ x(\delta^-(S))=1\\ S_1S \end{array}$$

$$SS_1SS_l\mathbf{value}_I(S)IS\mathbf{value}(I)I$$

$$d_S(u,v)uvS$$

$$D_{\max}(S)=\max_{u\in S_{in},v\in S_{out}}D_S(u,v)D_s(u,v)uSuvvSS\subseteq VL\cup\{S\}$$

$$\begin{array}{l} d_S(u,v)\leq_I(S)u-vS\\ D_S(u,v)\leq_I(S)u\in S_{in}v\in S_{out}\\ (1)R2\cdot y_RRR(1)_I(S)\\ (2)R\in LRS\\ u\in R\\ v\in R\\ R\\ RS(2)_I(S) \end{array}$$