

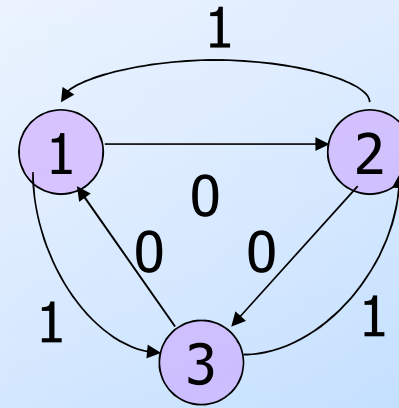
Questi lucidi sono basati su una traduzione in italiano dei lucidi in inglese del Prof. Jeffrey D. Ullman

<http://infolab.stanford.edu/~ullman/ialc/spr10/spr10.html#LECTURE%20NOTES>

<http://www-db.Stanford.edu/~Ullman/ialc.html>

# Esempio di applicazione del Metodo di Kleene

## Esempio: Base



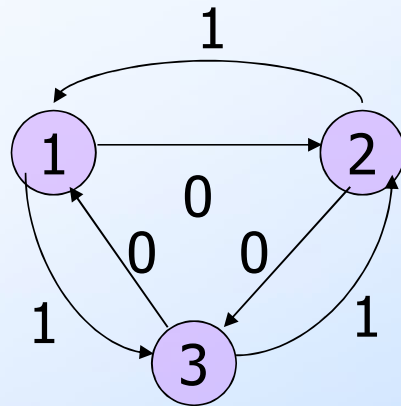
◆  $R_{1,2}^{(0)} = \mathbf{0}.$

◆  $R_{1,1}^{(0)} = \emptyset + \epsilon = \epsilon.$

◆  $R_{2,1}^{(0)} = \mathbf{1}.$

◆  $R_{1,3}^{(0)} = \mathbf{1}.$

## Esempio: calcolo di $R_{i,j}^{(k)}$



$$R_{2,3}^{(0)} = \mathbf{0}.$$

$$R_{2,3}^{(1)} = R_{2,3}^{(0)} + R_{2,1}^{(0)}(R_{1,1}^{(0)})^*R_{1,3}^{(0)} \\ = \mathbf{0} + \mathbf{11}.$$

$$R_{2,2}^{(1)} = \mathbf{10} + \epsilon$$

$$R_{2,3}^{(2)} = R_{2,3}^{(1)} + R_{2,2}^{(1)}(R_{2,2}^{(1)})^*R_{2,3}^{(1)} \\ = (\mathbf{0} + \mathbf{11}) + (\mathbf{10})^*(\mathbf{0} + \mathbf{11}) \\ = (\mathbf{10})^*(\mathbf{0} + \mathbf{11}) \\ = (\mathbf{10})^*\mathbf{0} + \mathbf{1}(\mathbf{01})^*\mathbf{1}$$