## **Notes and Comments on Lecture 7**

## **Critical Path Example**

To help the computation in pages 18, 19.

$$T_{1} = 0; \ T_{2} = \max[t_{12} + T_{1}] = 3$$

$$i \in S_{2} \setminus S_{1} = \{3\}, \ T_{3} = \max[t_{j3} + T_{j}] = \max[t_{13} + T_{1}, t_{23} + T_{2}] = 4, \ j \in S_{1} = \{1, 2\}$$

$$i \in S_{3} \setminus S_{2} = \{4\}, \ T_{4} = \max[t_{j4} + T_{j}], \ j \in S_{2} = \{1, 2, 3\}$$

$$0 + 0 = 0 \quad 2 + 3 = 5 \quad 2 + 4 = 6$$

$$= \max[t_{14} + T_{1}, t_{24} + T_{2}, t_{34} + T_{3}] = 6$$

$$i \in S_{4} \setminus S_{3} = \{5\}, \ T_{5} = \max[t_{j5} + T_{j}], \ j \in S_{3} = \{1, 2, 3, 4\}$$

$$0 + 0 = 0 \quad 0 + 3 = 3 \quad 0 + 4 = 4 \quad 4 + 6 = 10$$

$$= \max[t_{15} + T_{1}, t_{25} + T_{2}, t_{35} + T_{3}, t_{45} + T_{4}] = 10 \quad \Box$$