

Example 7.1

Q : $T(0)$ $T(1)$ $T(2) = ?$

Solution state space $\left\{ \begin{array}{l} 0 : \text{set up} \\ 1 : \text{processing} \\ 2 : \text{failure, repair} \end{array} \right.$

$$T(0) = \text{Exp}(S)$$

$$T(2) = \text{Exp}(V)$$

$T(1) \rightarrow \text{processing success } X_1 = \text{Exp}(P)$
 $\rightarrow \text{failure } X_2 = \text{Exp}(f)$

$$\begin{aligned} T(1) &= \min \{X_1, X_2\} \\ &= \text{Exp}(p + f) \end{aligned}$$