$$23-51-Q3$$

$$Q(a) \text{ state. ? } p?$$

$$S = \S 0, 1, 2 \S$$

$$Poo = P \mid B_{EH} \geqslant 2 \rbrace = 1 - P \S B_{E+1} = [\S - P \S B_{E+1} = 0]$$

$$= [-\frac{e^{n!}(o!)}{1!} - \frac{e^{-n!}o!}{0!} = 1 - 1 \cdot [e^{-o!}]$$

$$Poi = P \S B_{E+1} = 1) = 0 \cdot 1e^{-o!}$$

$$Poi = P \S B_{E+1} = 0) = e^{-o!}$$

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没实际意义

Mean sojourn time $E(T_i) = (1 - p_{ii})^{-1}$

$$E(T_2) = \frac{1}{1 - P_{12}} = \frac{1}{1 - e^{-0.1}} = 10.5083$$

mean
$$E(T_i) = \frac{1}{3} [E(T_0) + E(T_1) + E(T_2)] = 4.2042$$

State 2 starges longen than Dand 1

No surprise

comment: $\lambda = 0.1$ is a small number

So the usage rate is low and the replenishment policy reset the

number of spare bulks to 2 when ever

there is a shortfall

Cc) independent of previous state

DTCM要用Y=[y0 y1 y2]