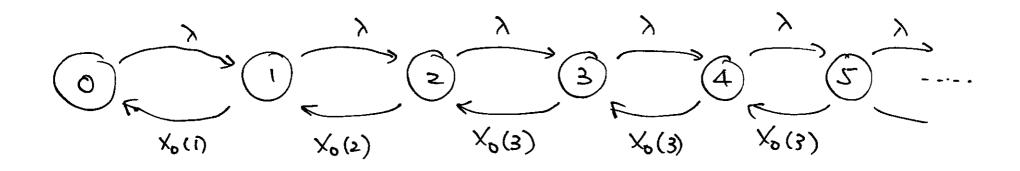
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* The transition rate Assignment Project Exam Helpfor k=0,1,...) is

the arrival rade of the request.

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* The transition rate from state (k+1) to state k (for k=0,...) is the rate at which Add what Chatepowerderd.

- For State 1 to State 0, this is the same as the throughput of the heb sener when there is only one client. (Note that throughput is effectively the number of referents completed in an unit time.)
- · For state 2 to state 1, the request completion rate is $\times_0(2)$.

- For stade 3 to state 2, the request completion rade is $\times_{\delta}(3)$
- · For state (kti) to state k (where k > 3), the request completion rate is always Xo(3) because only 3 represents one being processed by the sene. The others, are waiting in the queue.

In order to find the response time, he need to solve the model.

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using the trick given in the notes, he know that

PCD XoCh Add We Chat powcoder

$$P(2)$$
 $X_0(2) = \lambda P(1)$

$$P(3) \quad \chi_o(3) = \lambda \quad P(2)$$

$$P(4) \times_{6}(3) = \lambda P(3)$$

$$P(5) \times_{o}(3) = \lambda P(4)$$

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