Remote Bridge:

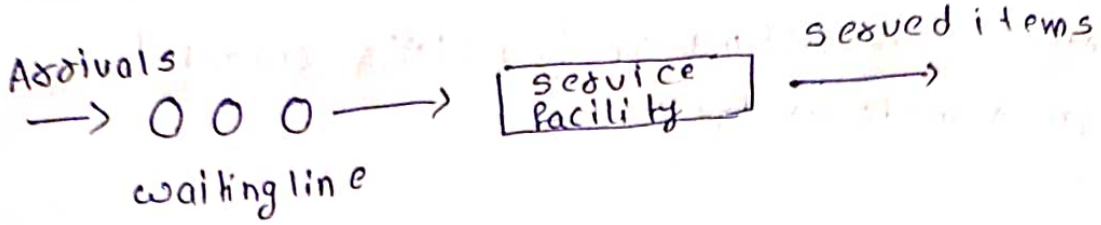
The bridge that connects two geographical separate network. By using telecommunication service such as lease lines or a circuit switched network.

* Waiting line analysis:

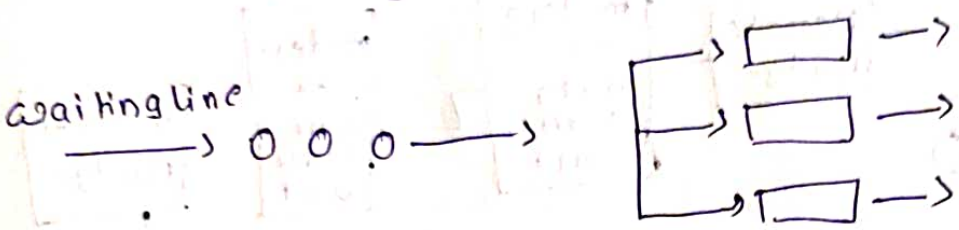
Queing theory examines every component of waiting in line including including arrival process service proces no.of seavers & no.of systems, no.of customes

Basic components:

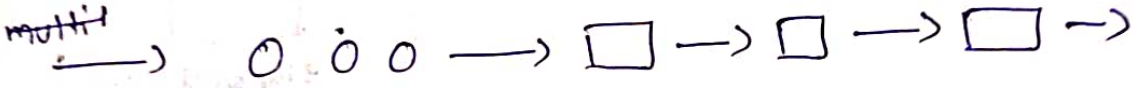
The input process can be considered the arrival of frames of data The service facility performes some predefine operation on arrivals, such as LAN data frame in SDLC (Synchronous Data Link control)



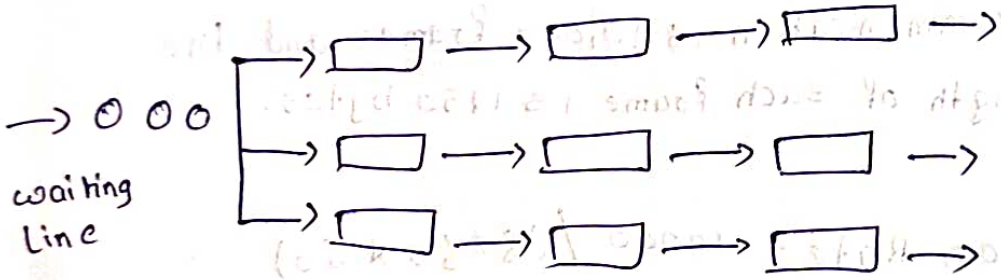
1) multi channel, single phase.



2) single channel, multiphase.



3) multichannel, multiphase.



* Queuing theory

Poission distribution.

$$p(n) = \frac{\lambda^n \cdot e^{-\lambda}}{n!}$$

$p(n)$ = probability of n arrivals

λ = mean arrival time

e = 2.71828

$n!$ = n factorial

$= n(n-1)(n-2)\ldots 1$

* The distribution of arriving entities and time required to service each arrival is done by poisson distribution

: Internet consisting of two LAN's connected through remote bridges.