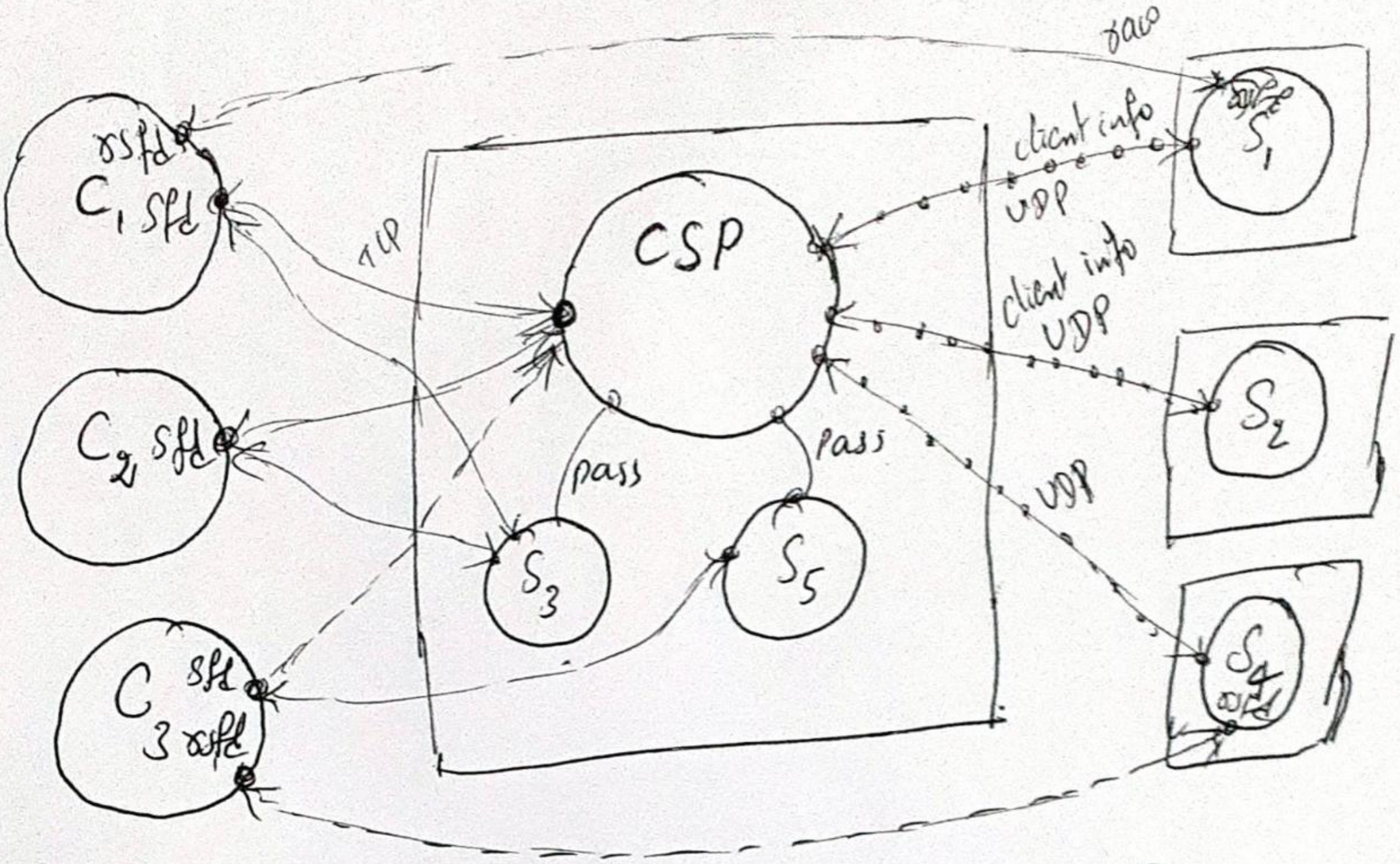
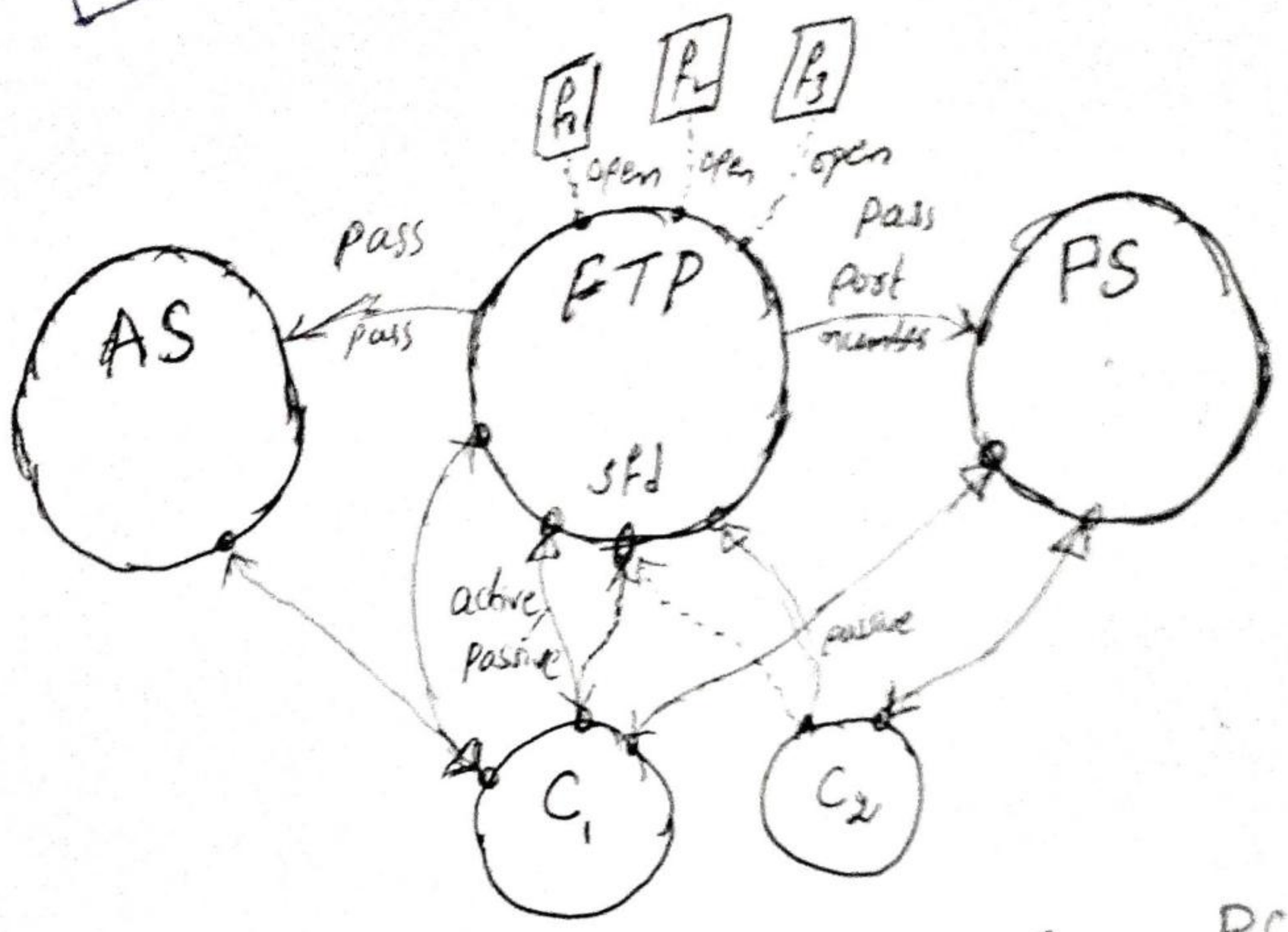
9.8 Central Service Provider - Raw



* Clients connect to Central Service Provider (CSP) and specifies the service number. Service Severs S_1, S_2, S_4 are on another systems whereas Service Severs process S_3, S_5 are in the same system of CSP.
* CSP accepts clients and if services are 3 or 5 it passes to S_3 or S_5. If services are 1, 2 or 4 then it sends client information to S_1, S_2 or S_4. CSP also sends a message "x" to clients if services are 1, 2, 4.
* If a client gets 'x' message from CSP, it opens a raw socket and it gets served on that raw socket by remote severs S_1, S_2, or S_3 according to its request.
* At a time a client can request many services.

Active/Passive FTP

10



* FTP - main Server, AS - Active Server, PS - Passive Server

* Client opens a control connection with FTP and sends for active - a or passive - p mode. If active mode it sends message as [a post-numbers file name]

which means: on which post-numbers it listens, and it wants the contents of file name.

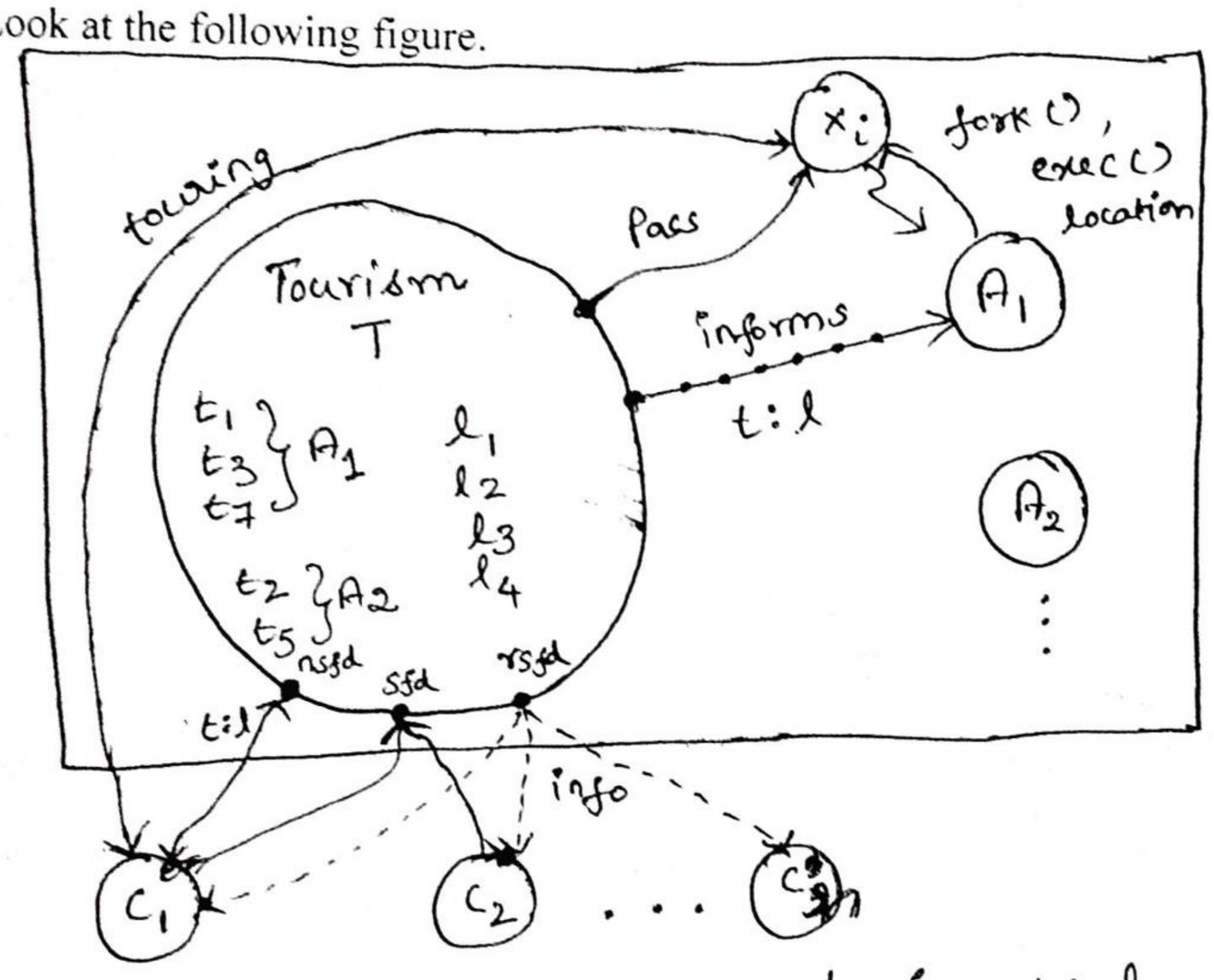
If passive mode a client sends message as [P file-name] means: it needs contents of file name.

* In 'a' mode client accepts connection from Server and then gets contents of the file.
In 'p' mode it first receives post numbers from Server and gets connected to that post, then it starts receiving the contents of file.

* FTP passes/sends required messages to AS, PS according to Client modes. FTP itself opens the data files.

11 Nitw-Tourism

Look at the following figure.



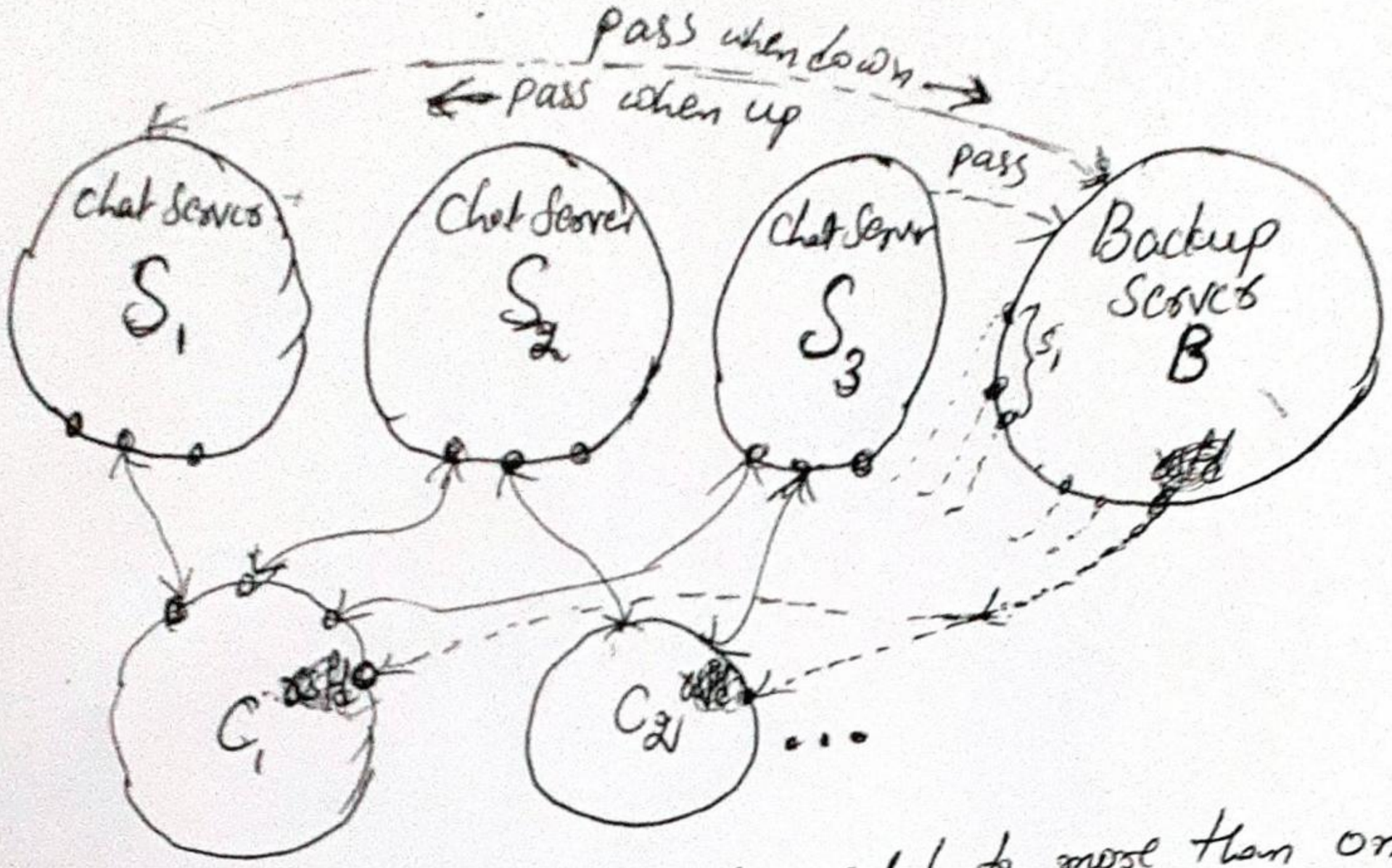
T - Tourism Server
A - Agents
x - Taxi
C - Customers

t_1, t_2, t_3, t_5, t_7 → Tourist places

l_1, l_2, l_3, l_4 → pick-up location for customers
[not Ip & Port numbers]

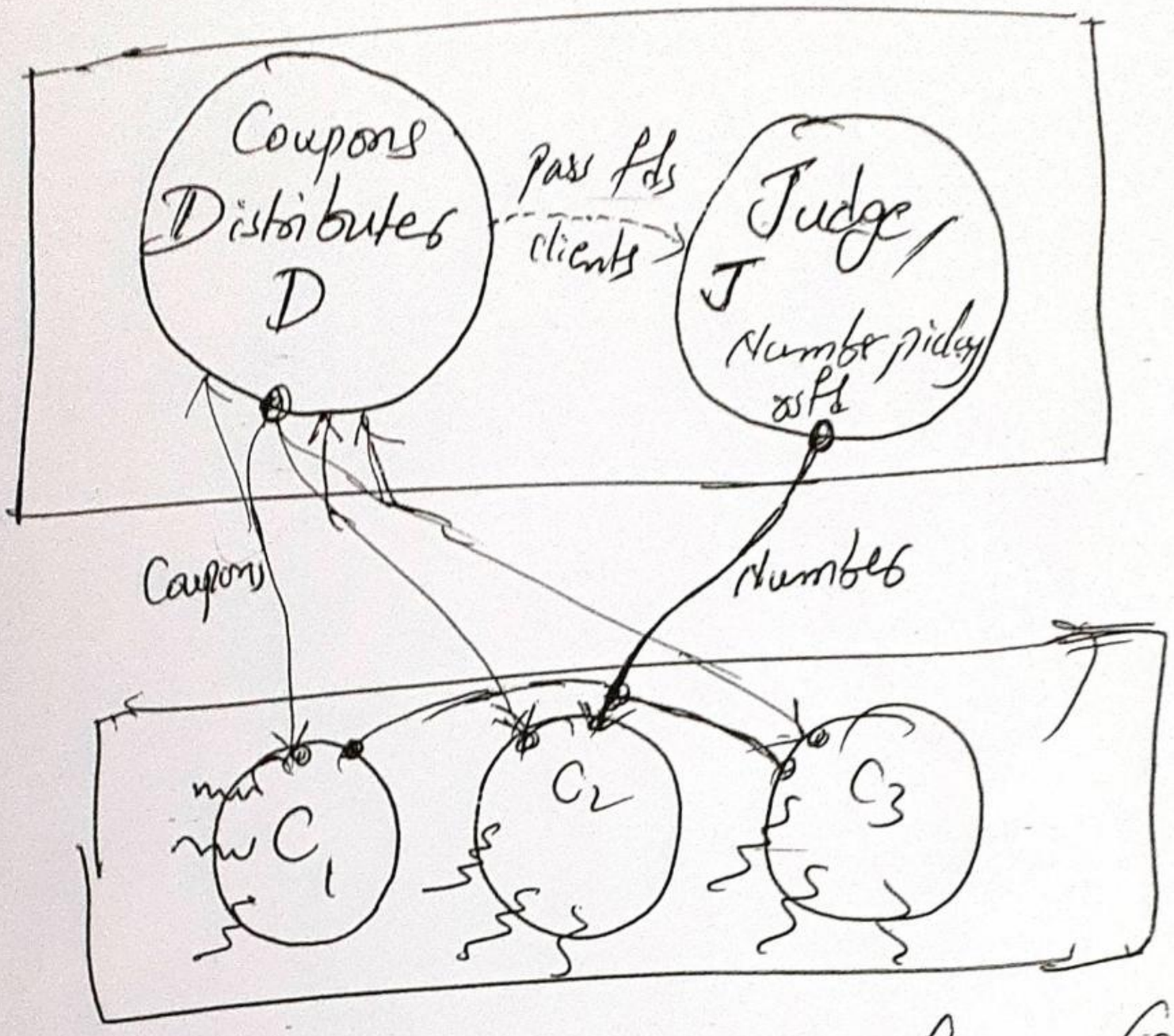
* C connects to T and requests for t_i, l_i.
* T accepts C connection and looks for A who provides t_i.
* T sends message to A_i for t_i, l_i.
* A fork(), exec() a taxi x_i by giving details of l_i.
* T passes customer to x_i.
* x_i now serves C_i.
* All clients who used service of T, gets tour packages/offers information from T, time to time.
* If any breakdown of vehicle occurs, x_i sends signal to A_i.

12 Multichat Servers_Backup Server



* A client can get connected to more than one chat servers.
* If a chat server S_i is going to down then it passes all its client connections to Backup Server B.
* B just informs the clients that they are getting served by it and then allows the chatting.
* More than one chat server can be down at a time.
* As soon as ~~the~~ a chat server S_i passes client chat connections to Backup Server, it notifies the clients that it has taken over the chat serving duty on behalf of that particular server S_i.
* clients can exit from a chat by sending "x".
* When a chat server S_i gets ready again, the Backup server B has to send it back the latest clients of in that group.

13 3 Housy - Multiple Coupons



* Customers/clients get coupons from Coupon Distributor D. Each C can get multiple coupons. Assume a coupon consists four numbers between 0 & 99.
Ex: 9 41 18 22. All client processes are at same syst
* After coupon distribution is over, process D sends client/customer information to Judge process J. The Judge process starts picking a random number and send the numbers to clients site.
* C_1, C_2, C_3 compares the numbers within their coupons in each thread (one coupon per thread).
If any coupon gets fully matched, the C_i informs to Judge J. J announces the Winner.