Communication Rules

- $P_1, \ldots, P_m$ communicate with each other and with the functionality $\mathcal{F}$
  - Messages between $\mathcal{F}$ and the parties $P_1, \ldots, P_m$ have a *public* header and *private* content
  - Different copies of $\mathcal{F}$ are differentiated by *sid*
- $\mathcal{Z}$ communicates with $\mathcal{A}$ only
  - But, $\mathcal{Z}$ writes to input tapes of $P_1, \ldots, P_m$ and reads their output tapes
- $\mathcal{F}$ communicates with $\mathcal{A}$ and $P_1, \ldots, P_m$
- $\mathcal{A}$ communicates only with $\mathcal{F}$ and $\mathcal{Z}$
- Router sends all messages to $\mathcal{A}$ and delivers them when instructed by $\mathcal{A}$
  - Messages are of the format (sender,receiver;content)
  - Router only sends public header of messages to and from $\mathcal{F}$ to $\mathcal{A}$ (so $\mathcal{A}$ does not see the private content)
  - $\mathcal{A}$ notifies the router when to deliver messages but has no influence beyond that

Write inputs; read outputs (to all P_i)