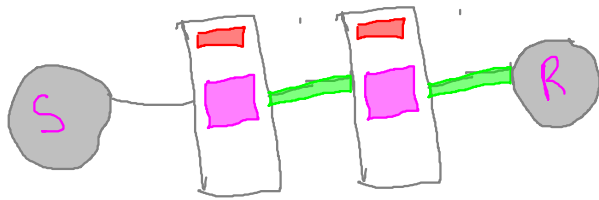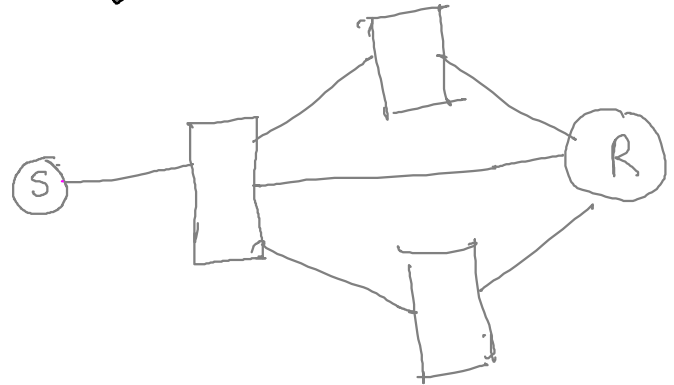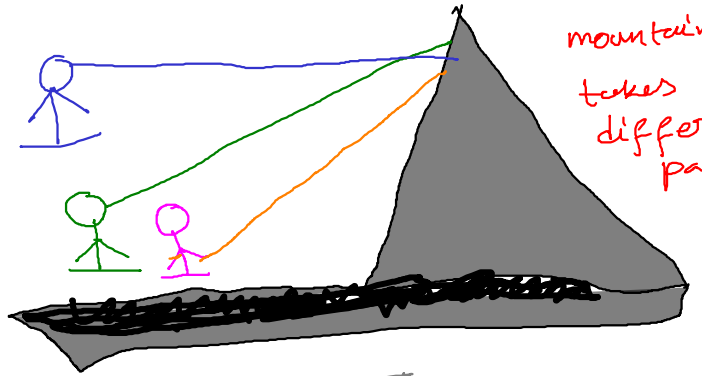# Packet Switching

Virtual Circuits

Amature mountainers follows the guide & follows the path of mountain-guide

Datagram

every mountainer takes different path

In VC, if there is multiple packets then the packets follows the same path which first packets take & so that this path does not cause any problem to package transferring the buffer is reserved to hold the packet, the cpu is reserved for immidately re-transmit the packet from the hop and the bandwidth is also reserved so that transmisson is faster

Unlike VC, In DG nothing is reserved, here every packet can choose different path and when a packet gets transmitted, it is in their luck if they can find buffer, cpu & Bandwidth availible → If these doesn't availible then the packet gets discarded

1) Buffer, CPU & Bandwidth is reserved

2) Rest of the packets follow first packet in the same path → so the packets are in-order

3) b/c the resources are reserved → no packets are discorded.
So VC is very reliable

4) In phone-call we use VC.
Here our n/w provider already reserved buffer, CPU & Bandwith that's why they charge us as time → we pay for the resources/time that are reserved for us.

Same reason is for jio-jio is free b/c jio has reserved oresources and jio customers are connected with same resources so they can give it as a offer but they can't give it with other n/w as to reach other n/w we need resources of other n/w which is not reserved

1) Not reserved

2) No packets follow the path of another packet so the packets are out of order

3) Packets may get discarded if they can't find avilible buffer, CPU & Bandwith.
So, they are not very reliable.

4) In internet data DG is used → There is nothing reserved we pay as per our data is processed or stored or transmitted with available Bandwidth

viber is an app where we can call with datagram they convert call to data with VOIP technology.

by Jio. Same reason for STD calls
are pricey b/c to reach far-away
calls we need more resources
of other n/w

Costly

Not costly

by Jio. Same reason for STD calls
are pricey b/c to reach far-away
calls we need more resources