Stop & wait ARQ (Automatic Repeat Req)

① Data lost :—

S → R   Data lost diagram

≥ Deadlock

Sol^n ⟹

S → R   Timeout Timer diagram

S&W ARQ = S&W + TO Timer

② Ack lost

S → R   mlr, duplicate frame diagram

Sol^n ⟹

S → R   TO, D1, A, dup X Discarded diagram

⟹ S&W + TO + seq no to the Data

Delayed Ack :—

③

S → R   Delayed Ack, TO, D1, A, D2, D3 diagram   X discarded ⟹

S → R   TO, D1, A2, D1 discarded, A2, D2 discarded X diagram
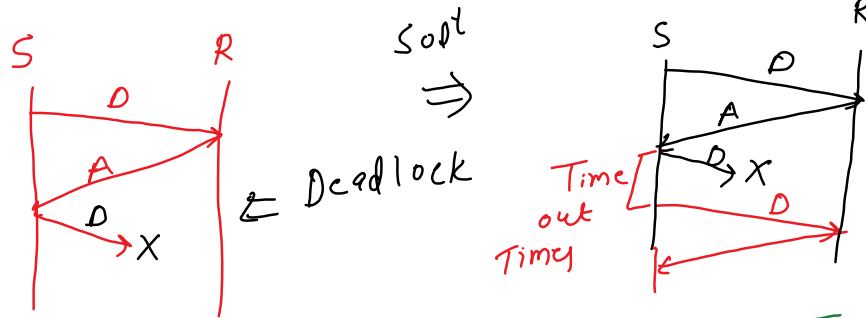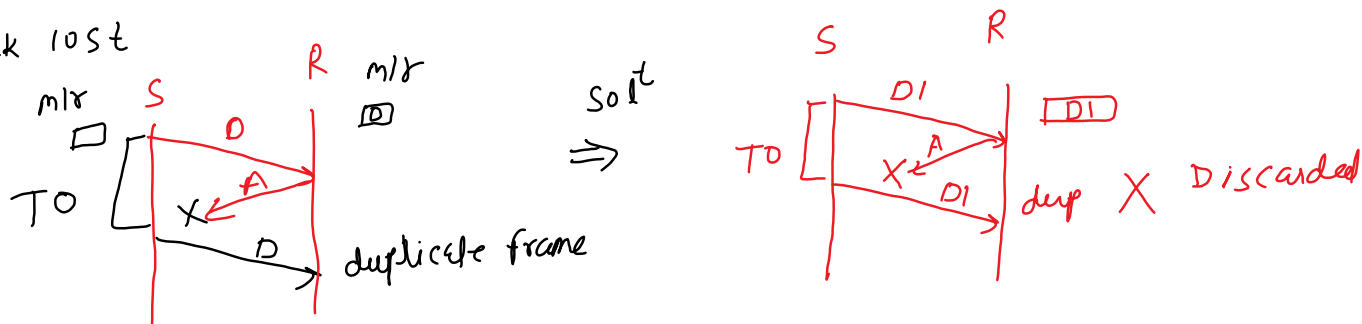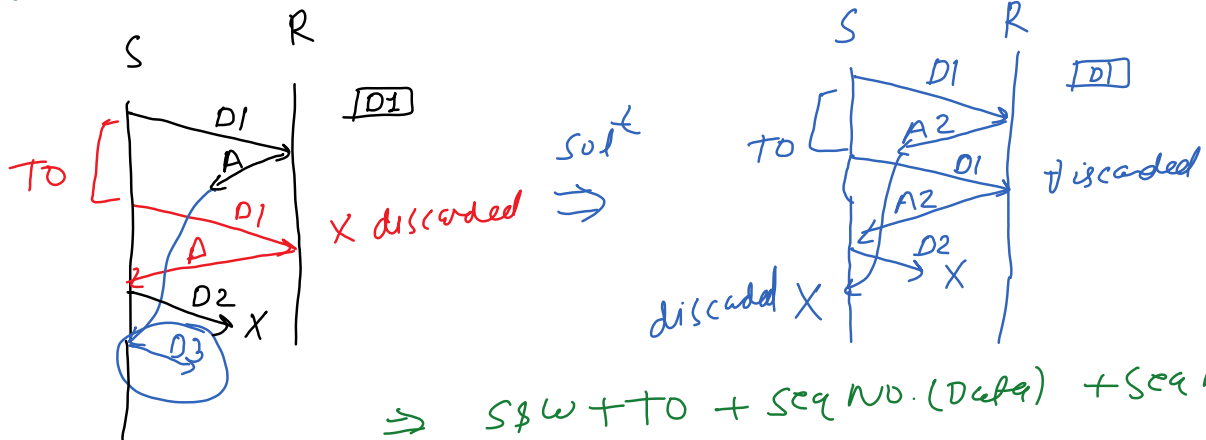
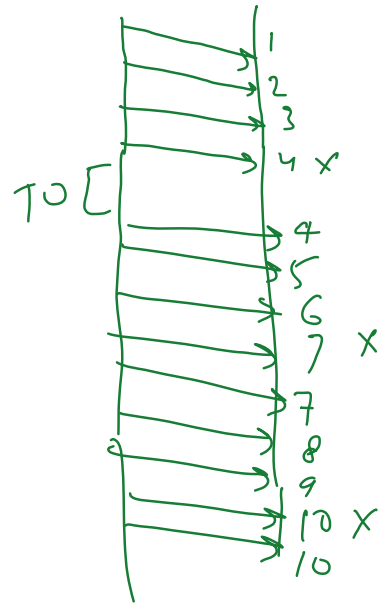⟹ S&W + TO + seq No. (Data) + seq no (Ack)

Q·   S&W ARQ

Send = 10 pkt, every 4th pkt is Lost
How many total pkt send by the sender :—

⊢ 1,   — 12

How

= 13

TO [

1
2
3
4 X
4
5
6
7 X
7
8
9
10 X
10