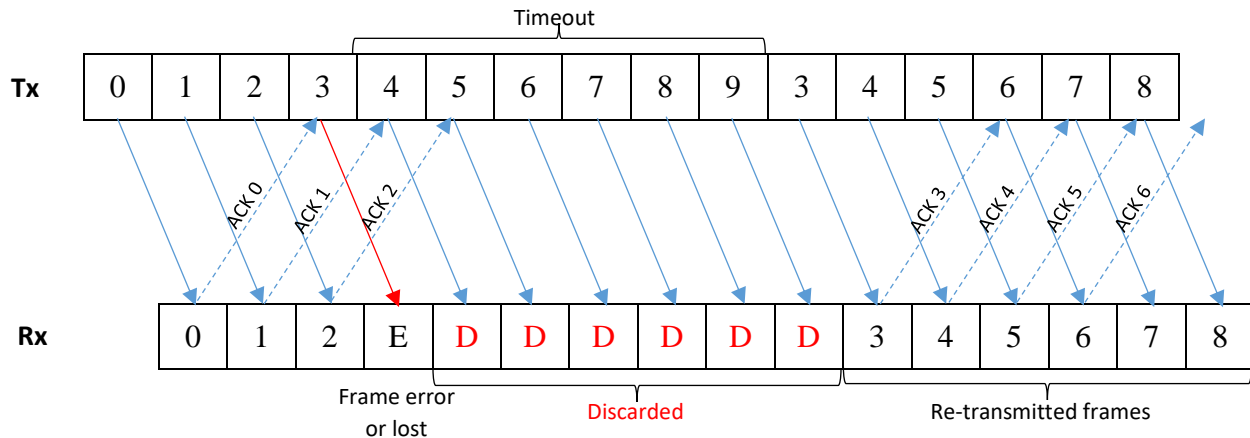


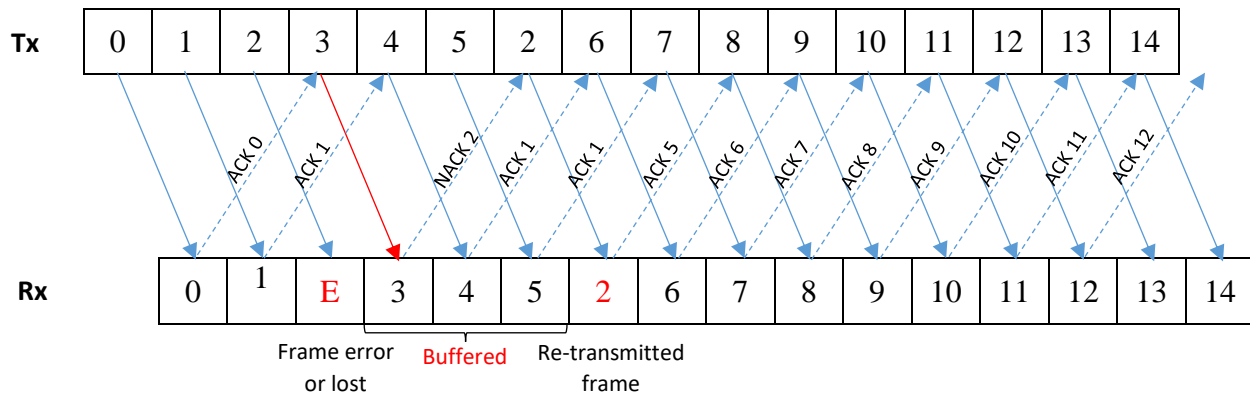
In- class Assignment 1
Name: H. A. N. H. Kumarasinghe
Index No: 180337M

ARQ protocol

1. Go-back-N



2. Selective Reject



Differences of ARQ protocol between datalink layer and transport layer implementations

Data Link Layer	Transport Layer
<ul style="list-style-type: none"> • Provide error free transmission over a single link • Correct bit level errors which occur in Physical Layer • Data will be transmitted in frames. • Repeat requests are based on frames. • ARQ process will be between intermediate nodes in a network. • Errors in Physical Layer and Data Link Layer can only be addressed. • Bandwidth efficiency will be high as the repeat requests are based on frames. • Requires low buffer size and processing power. 	<ul style="list-style-type: none"> • Provide end-to-end error free transmission • Error control in packet level which occur in Network layer • Data will be transmitted in segments. • Repeat requests are based on segments. • ARQ process will be between end stations. • Errors in Transport Layer and all the Layers below (Physical Layer and Data Link Layer) can only be addressed. • Bandwidth efficiency will be low as the repeat requests are based on segments. • Requires large buffer size and processing power