Students to Discuss Solution: TCP Congestion Control (Week 5)

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Look at the graph in the Figure below that shows how the congestion window is changed over time for a TCP connection. Certain parts of the graph that are of extra interest have been marked with numbers. With the help of the graph, answer the following questions:

(a) What is the difference of the loss events happening at 1 and 2 in the figure? Explain why the effect on the size of the congestion window is different in the two cases.

(b) What is the phase that TCP is in the circled segment marked by 3 called ?

(c) What is the phase that TCP is in the circled segment marked by 4 called?

(d) Why is the congestion window increased more rapidly at 3 than at 4 ?

(e) Why are the peak values at 1 and 2 different ?

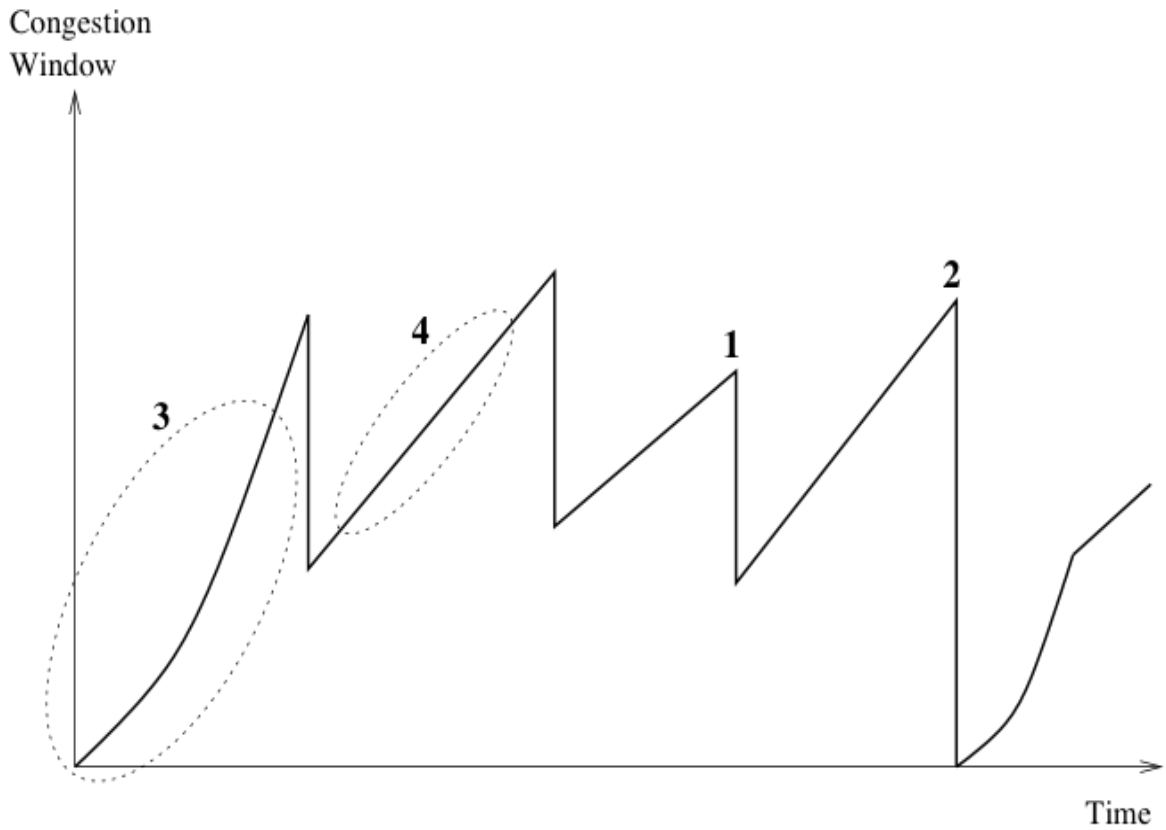

Figure 1. Congestion Window vs Time