CS 372 Introduction to Computer Networks Self-Check Exercises: Lecture 16

1)	What is reliable data transfer?
2)	What about RDT is indicated by the two-generals problem?
3)	What are some aspects of reliable data transfer?
4)	Theoretically, what is the maximum number of bytes that can be carried in the "application data" section of a UDP segment?
5)	What aspects of RDT does the UDP protocol implement?
6)	(TCP and UDP use 16-bit sums to compute the checksum field. For this exercise, use 8-bit sums.) Given the following bytes:

0 1 0 1 0 0 1 1

0 1 1 0 0 1 1 0

0 1 1 1 0 1 0 0

a.	What is the 1's-complement of the sum of these bytes?
b.	If there is only one error bit in a segment, could it go undetected? How?
c.	If there are 2 bits in error, could the errors go undetected? How?