1. UDP, User Datagram Protocol is a <u>connectionless protocol</u>.
   doesn't establish a connection before send data

2. Cached objects are often located closer to the user geographically, through that we don't need to wait for the object every time.

3. TCP ensures that all data packets in correct sequence, these feature is very important for HTTP on web pages, FTP on files, SMTP and POP3 on mails.
   (correct order)

4.
   Total DNS Lookup Time = $RTT_1 + RTT_2 + \ldots + RTT_n$

   Object Retrieval Time = RTT_0

   $\downarrow$

   Total Elapsed Time = $\sum_{i=1}^{n} RTT_i + RTT_0$

5. (a) Total Time = RTT_0

   (b) Total Time = $3 \times RTT_0$

   (c) Total Time = RTT_0