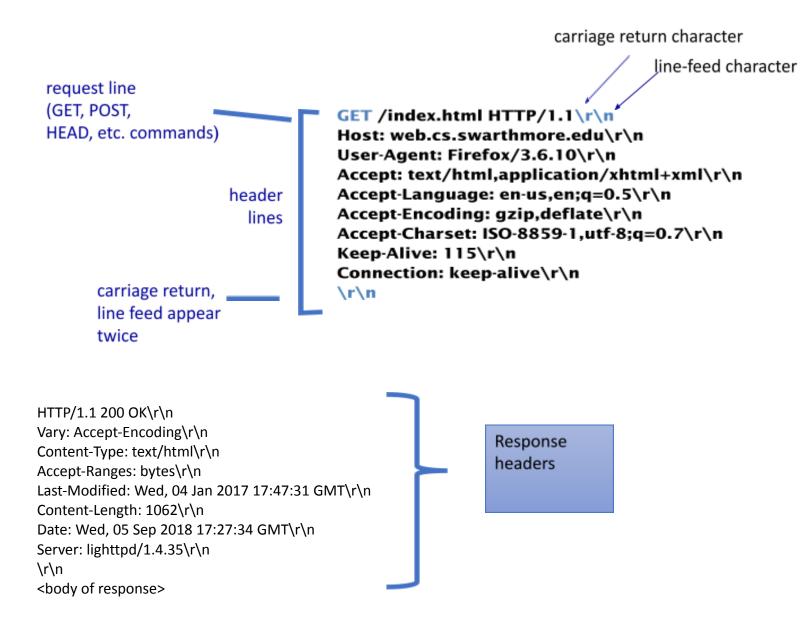
## Worksheet Class 2-3: HTTP and Socket Programming

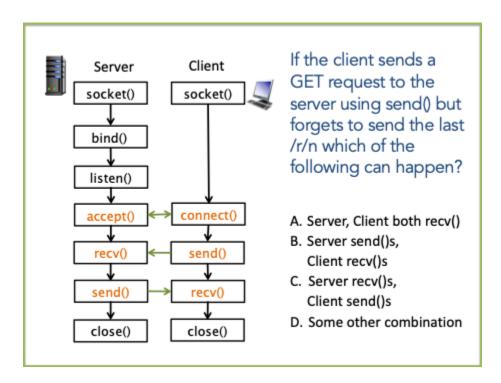


- Q1. We have these \r\n (CRLF) things all over the place.
  - (a) Are all of them necessary? What would happen if we didn't have any of them?

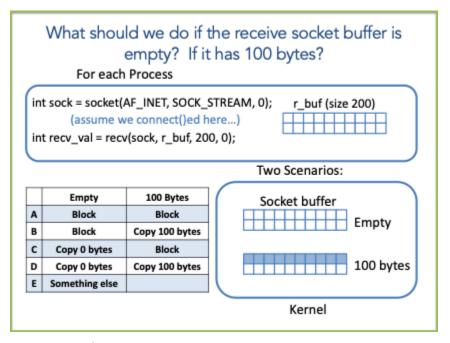
- (b) How might we delineate messages in HTTP? Discuss the pros and cons of each protocol design
  - a. There's no way to delineate messages
  - b. The way it's currently done is using \_\_\_\_\_

- c. Force all messages to be the same size
- d. Send the message size prior to the message
- e. Some other way (discuss)
- Q2. Let's say HTTP was not a text-based protocol, but a binary protocol.
  - (a) Would we still be able to use CRLFs? Why or why not?
  - (b) We talked about header sizes in relation to the payload size of a packet last week. Do you see any advantage of a binary protocol

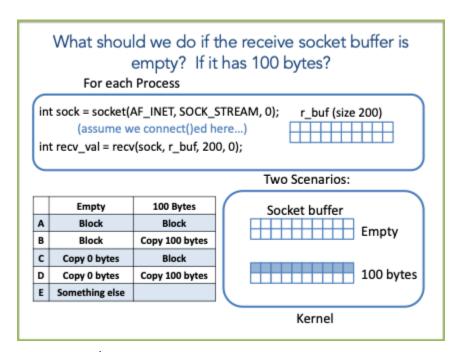
## **Socket Programming Questions**



Discuss your choice of answer here:



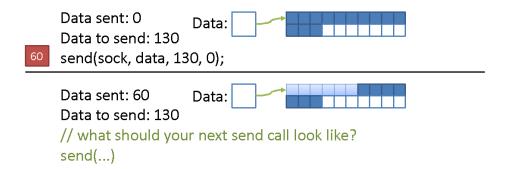
Your answer here:



Your answer here:

## ALWAYS check send() and recv()'s return value!

 When send() /recv() return value is less than the data size, you are responsible for sending/receiving the rest.



Write in your next send() call here assuming that the first call to send() has successfully sent 60 out of 130 bytes.