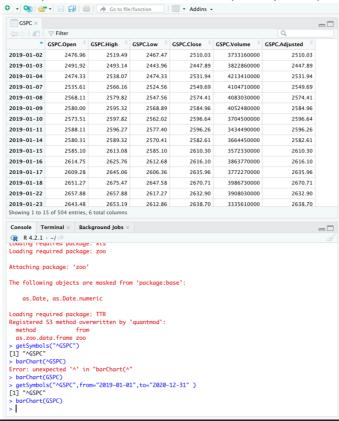
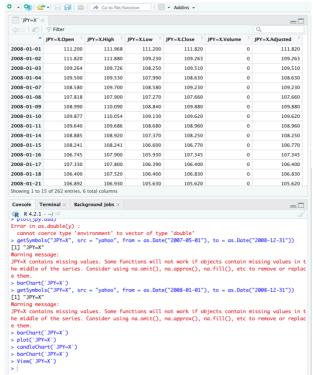
Problem 1. Plot the prices for GSPC in the past year (2019-2020)





The chart above shows the S&P fell off a cliff in early 2020. This also corresponds to several circuit breakers in the U.S. stock market. The reason may be that the epidemic in the United States was more severe at that time and the decline in global crude oil prices.

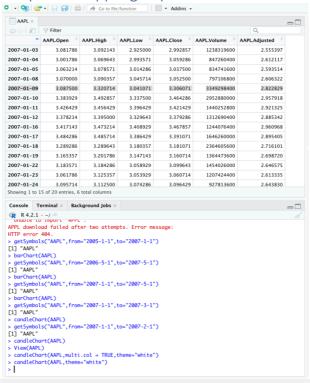
Problem 2. What happened to USD/JPY after the subprime market crash in 2008?

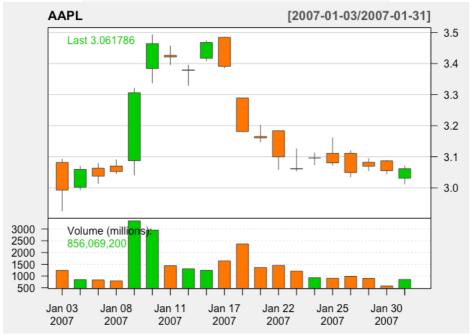




We can see that between July and October, the JPY appreciated by more than 10%. One reason is that the Bank of Japan and the public hold a lot of foreign bonds, which are often sold in exchange for JPY during financial crises. Another reason is that during the subprime mortgage crisis, many carry trades using the JPY were closed, causing a large amount of money to flow back to Japan.

Problem 3. Did the stock price of Apple go up after the launch of the original iPhone?





According to records, the original iPhone was officially announced on January 9, 2007. Clearly the stock price of Apple went up on this day.