1. (7 points) Implement the quick sort algorithm discussed in the lecture, specifically to solve the sort of list provided in the lecture (6 points). For the other point, test it on the list from class (and fix it if it doesn’t work!).

2. (3 points) Build a loop that queries the user for integers until all provided numbers sum to exactly 50. Print the current total after each entry from the user and a warning if the sum exceeds 50. Also, have the loop terminate (with a warning) if the user has entered more than 10 numbers.