Use the nhanes04 data for all the problems below

1. Is the average cholesterol within a safe range?
2. Find the 99% CI for average cholesterol.
3. Is the average cholesterol within a safe range for men?
4. Is the average cholesterol within a safe range for women?
5. Is the average cholesterol within a safe range for White?
6. Is the average cholesterol within a safe range for Black?
7. Is the average cholesterol within a safe range for Hispanic?
8. Is the population balanced with respect to gender?
9. Find the 90% CI for proportion of females.
10. Find the 90% CI for proportion of males.