Bootstrap Sampling

SXX-XXX

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library(ggplot2)

Body fat percentage of 92 individuals are given below.

- 1. Draw a histogram of bodyfat data
- 2. Check the normality of observations
- 3. Obtain the sampling distribution of average body fat percentage
- 4. Obtain a estimate for average body fat of an individual using Bootstrap sampling
- 5. Draw a histogram of bootstrap estimates and sampling distribution of average body fat of an individual
- 6. Estimate the median body fat percentage of an individual
- 7. Obtain the 95% confidence interval for median body fat percentage of an individual