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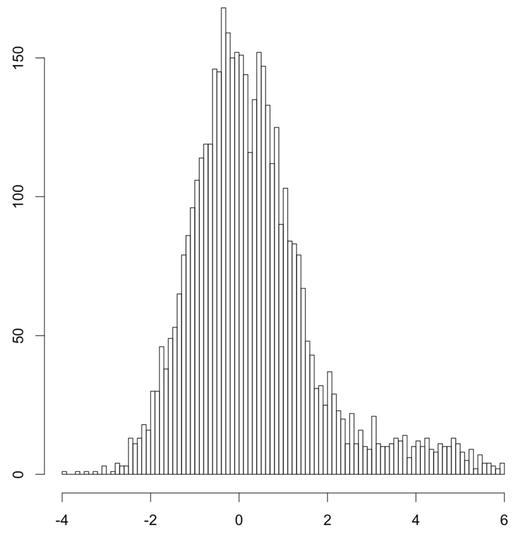
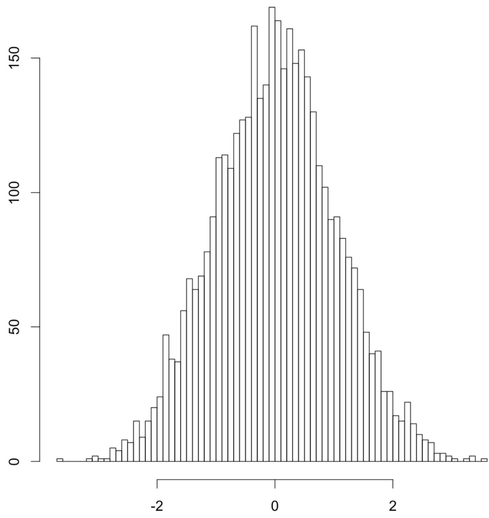
Go to next item

1. 1 / 1 point



Plot 1



Plot 2

Which of the two plots indicates a higher kurtosis value?

- (•) Plot 1
- ( ) Plot 2

Correct
Correct

2. What is the kurtosis of the following list? 1 / 1 point

34,1,23,4,3,3,12,4,3,1

Please enter at least three digits after the decimal

2.136594

Correct
Correct

3. The higher the kurtosis value, the longer the "tails" of the distributions are. So, kurtosis measures the outlier content. The higher the kurtosis value, the more outliers are in the dataset because the more far a values is away from the mean, the more it contributes to the kurtosis. In other words, the distribution has long tails. Which are examples of long tailed datasets? 1 / 1 point

- [x] Velocity values recorded from all connected cars over one year in a country

Correct
Correct

- [ ] Velocity values recorded from one single connected cars over one hour
- [x] Latitude coordinates of all rain drops fallen on earth for the last 60 minutes

Correct
Correct

- [x] Number of minutes a lift in a smart building was waiting at each floor over the last 24h

Correct
Correct

- [ ] Hour of the day a smart light bulb has been turned on and off over the last year

4. What is the skewness of the following list? 1 / 1 point

34,1,23,4,3,3,12,4,3,1

Please enter at least three digits after the decimal

1.725307

Correct
Correct

5. Consider a connected car. We are measuring the car's velocity 600 times per minute. Note that in time intervals the car stands the velocity of zero is measured. If we now plot the distribution of velocity values, is this distribution positively or negatively skewed? 1 / 1 point

Some further explaination from the discussion forum:

Just imagine a car driving in Bangalore, so if you measure it's velocity, most of the time it is zero - sometimes it is between 3-5 km/h and rarely above, so please imagine how such a chart looks like if you have velocity on the x axis and frequency (how often you've measured that velocity) on the y axis

- ( ) negatively skewed
- (•) positively skewed

Correct
Correct