Skewness and kurtosis

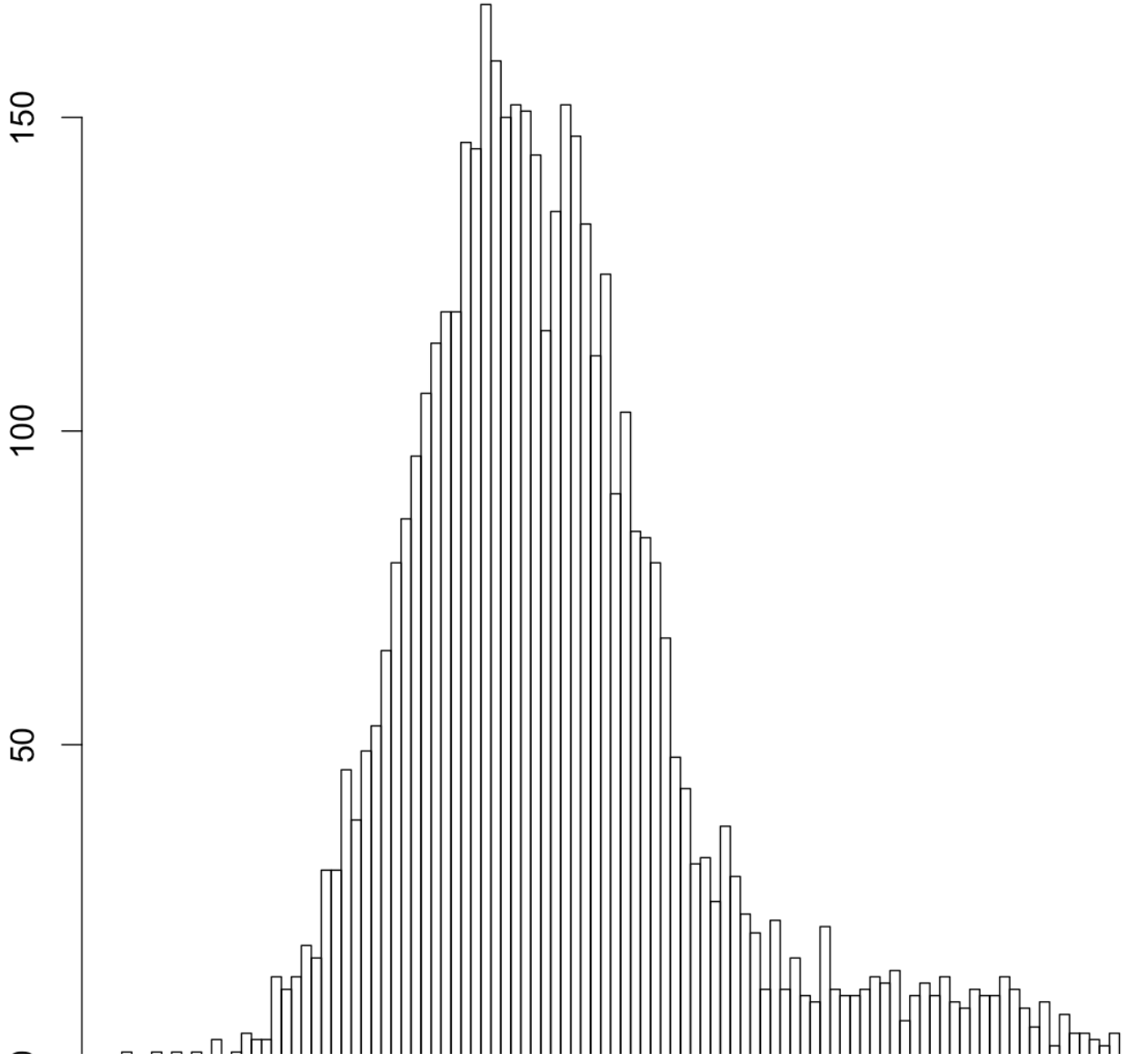
Quiz, 5 questions

Congratulations! You passed!

Next Item

1 / 1 point

1.



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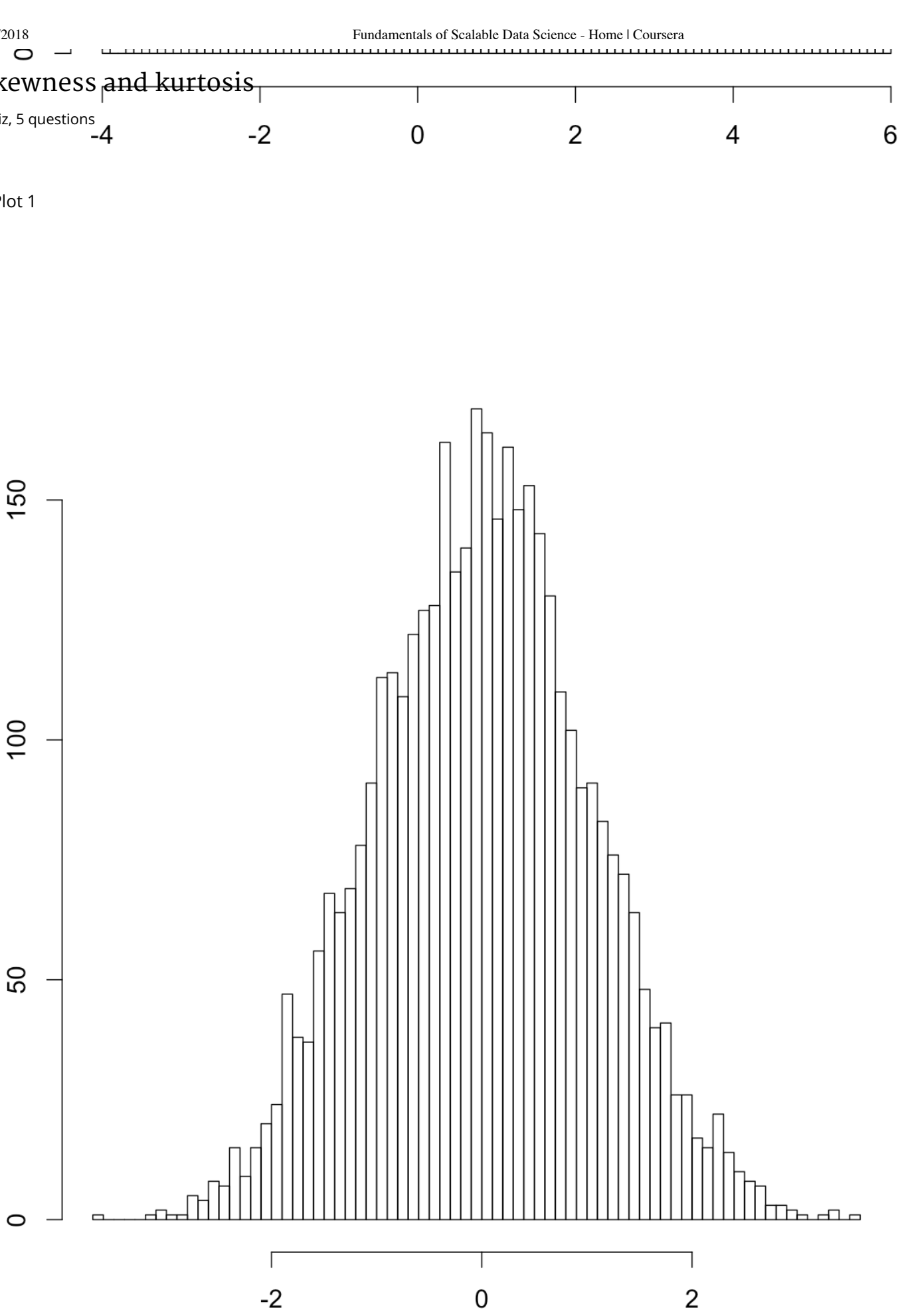
Plot 1



Plot 2

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Which of the two plots indicates a higher kurtosis value?

- [x] Plot 1

Correct

Correct

- [ ] Plot 2

---

1 / 1 point

2.

What is the kurtosis of the following list?

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

Please enter at least three digits after the decimal

2.967

Correct Response

Correct

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1 / 1 point

3.

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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?

- [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

Un-selected is correct

- [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

Un-selected is correct

✔ 1 / 1 point

4.

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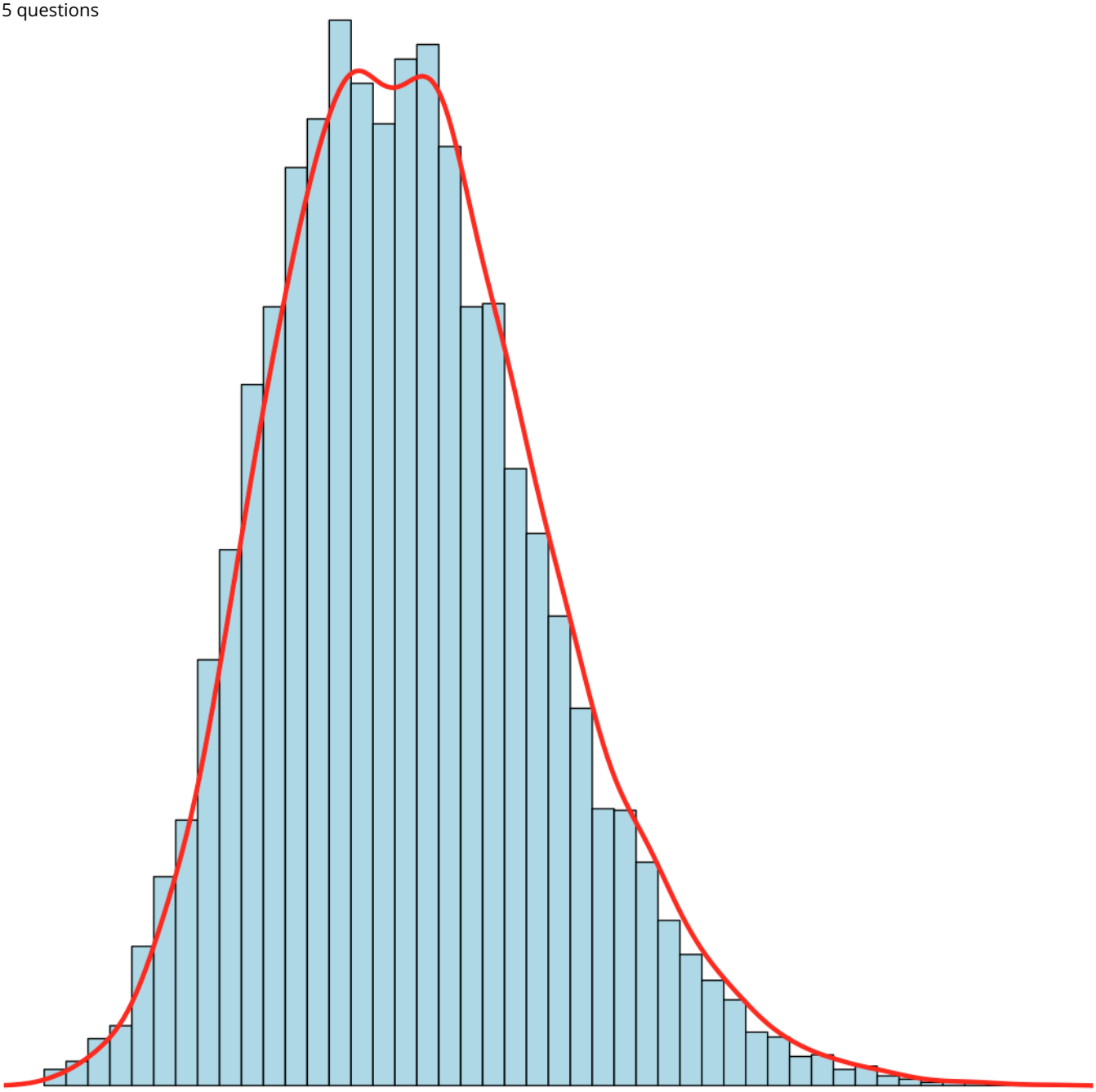

What is true about this value distribution?

- [x] This distribution is positively skewed

Correct

- [ ] This distribution is negatively skewed

Skewness and kurtosis

0 / 1 point

Quiz, 5 questions

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?

- [x] negatively skewed

This should not be selected

Incorrect. Please imagine you driving in your car. What differend speed levels are you observing most likely? Please revisit Video "Skewness"

- [ ] positively skewed