

Parallelism in Apache Spark

LATEST SUBMISSION GRADE

100%

1. What is the advantage of median over mean?

1 / 1 point

- ☒ Median is more outlier resistant. Odd values influence median less than mean.
- ☐ Mean is more outlier resistant. Odd values influence mean less than median.

✓ **Correct**
Correct

2. What is the mean of the following list?

1 / 1 point

1,2,4,5,34,1,32,4,34,2,1,3

Please use a decimal point instead of a comma

10.25

✓ **Correct**
Correct

3. What is the median of the following list?

1 / 1 point

1,2,4,5,34,1,32,4,34,2,1,3

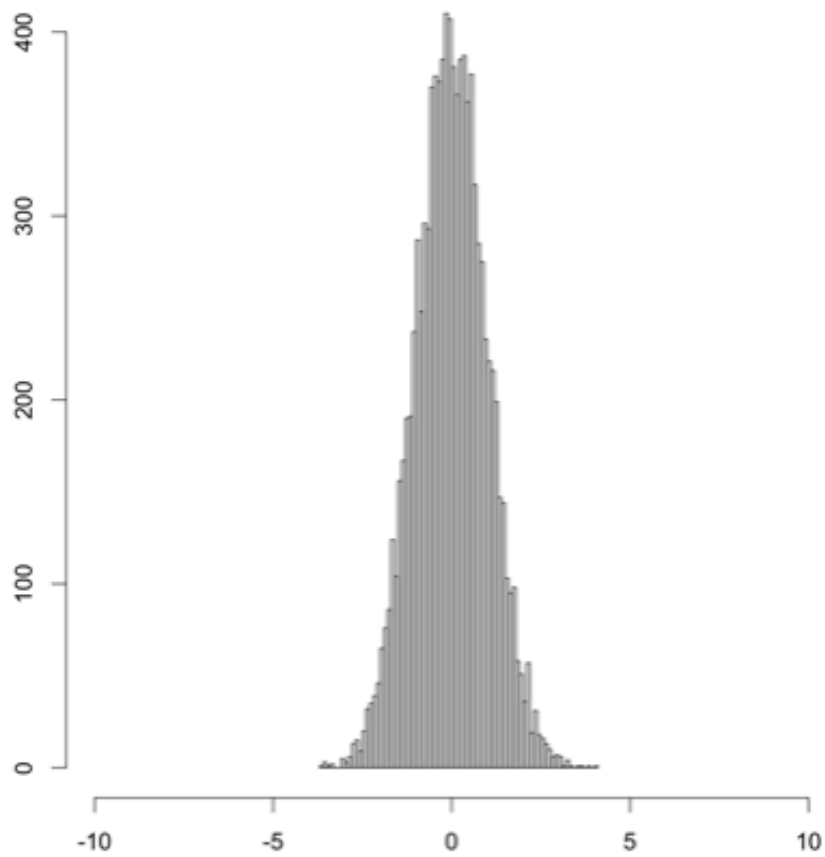
Please use a decimal point instead of a comma

3.5

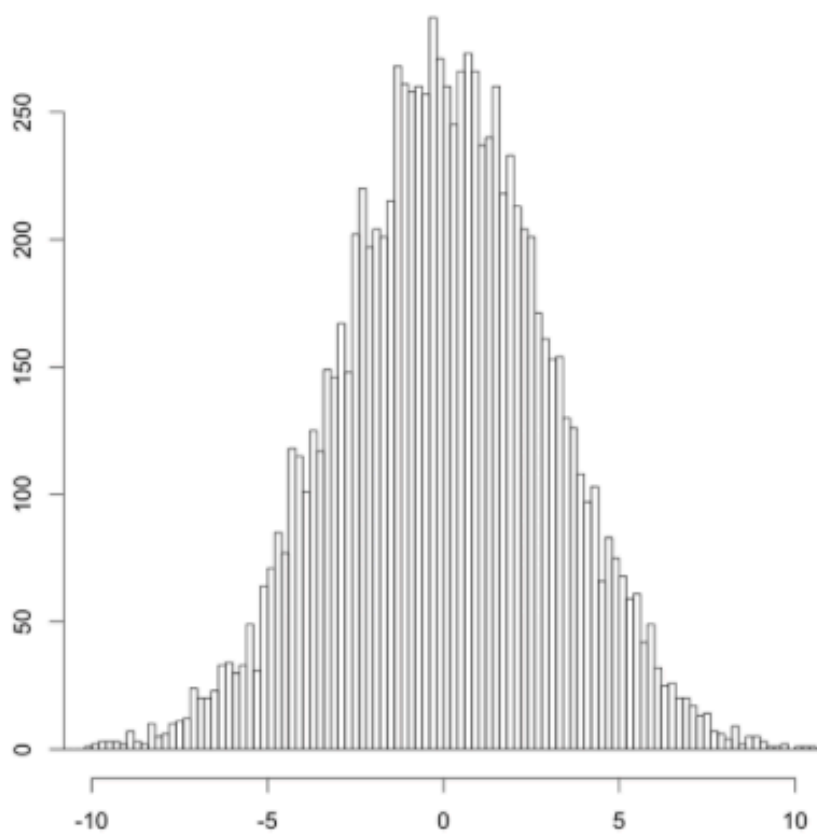
✓ **Correct**
Correct

4. Which of the following two plots has a higher standard deviation?

1 / 1 point



Plot 1



Plot 2

☐ Plot 1

☒ Plot 2

✓ Correct
Correct

5. What is the standard deviation of the following list?

1 / 1 point

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

Please enter at least 3 digits after the decimal

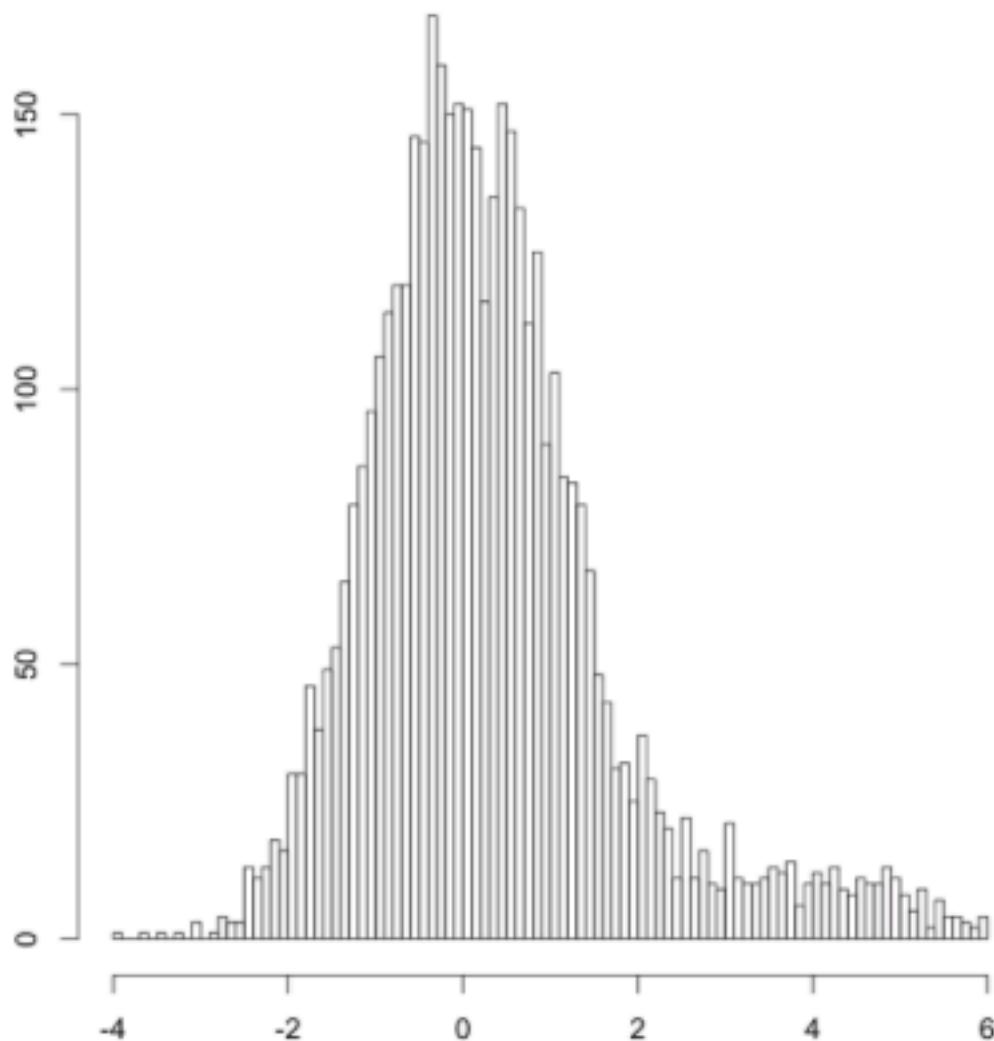
Please use a decimal point instead of a comma

10.562

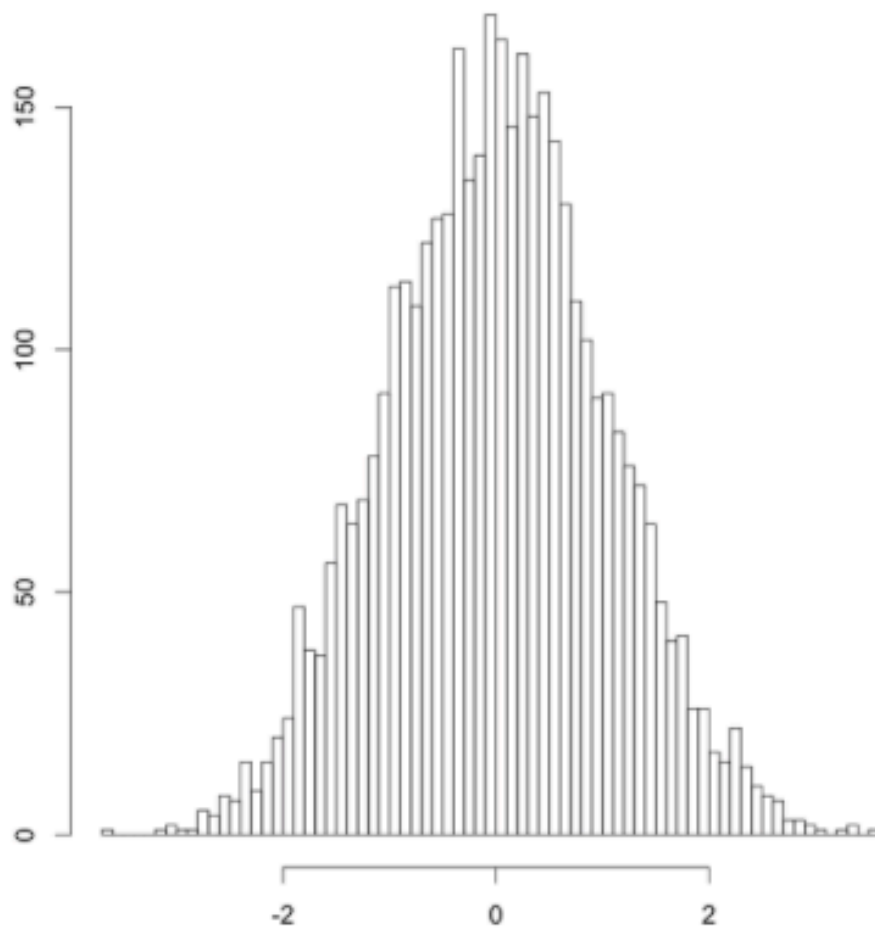
✓ **Correct**
Correct

6.

1 / 1 point



Plot 1



Plot 2

Which of the two plots indicates a higher kurtosis value?

- ☒ Plot 1
- ☐ Plot 2

✓ **Correct**
Correct

7. 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

0.663

✓ **Correct**
Correct

8. 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

1.454

✓ **Correct**
Correct

9. What is the correlation between the two lists?

1 / 1 point

1,2,3,4,5,6,7,8,9,10

7,6,5,4,5,6,7,8,9,10

Please enter at least three digits after the decimal

0.7092

✓ **Correct**
Correct

10. What is the covariance between the two lists?

1 / 1 point

1,2,3,4,5,6,7,8,9,10

7,6,5,4,5,6,7,8,9,10

Please enter at least three digits after the decimal

3.650

✓ **Correct**
Correct

11. The correlation between the following two lists is zero, can you explain why?

1 / 1 point

1,2,3,4,5,6,7

7,6,5,4,5,6,7

- ☒ Correlation of 1st half of the list is negative and between the last half of the list is positive so they cancel out
- ☐ The second list is totally random with respect to the first list, therefore they don't correlate at all

✓ **Correct**
Correct