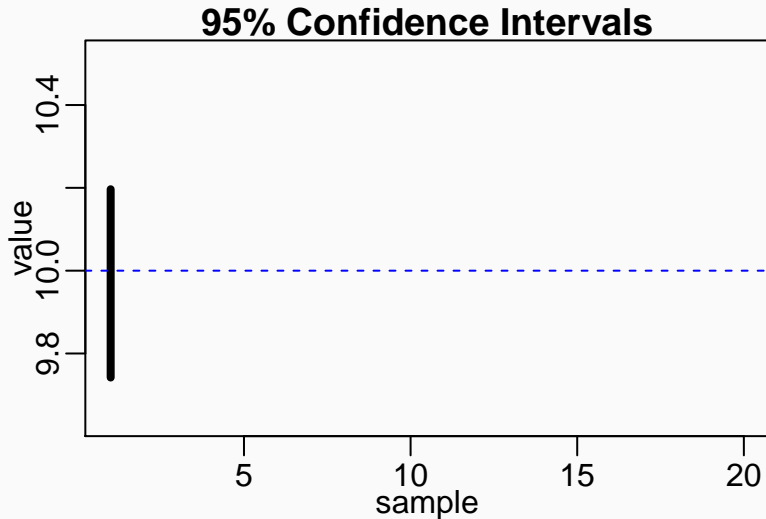
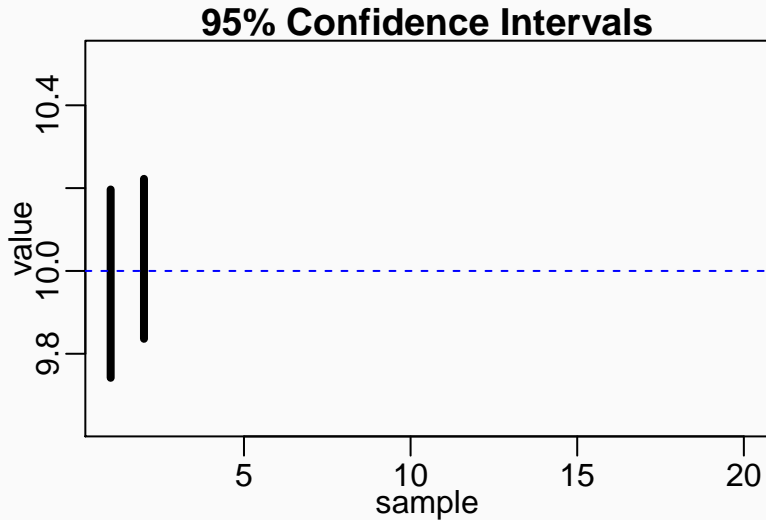


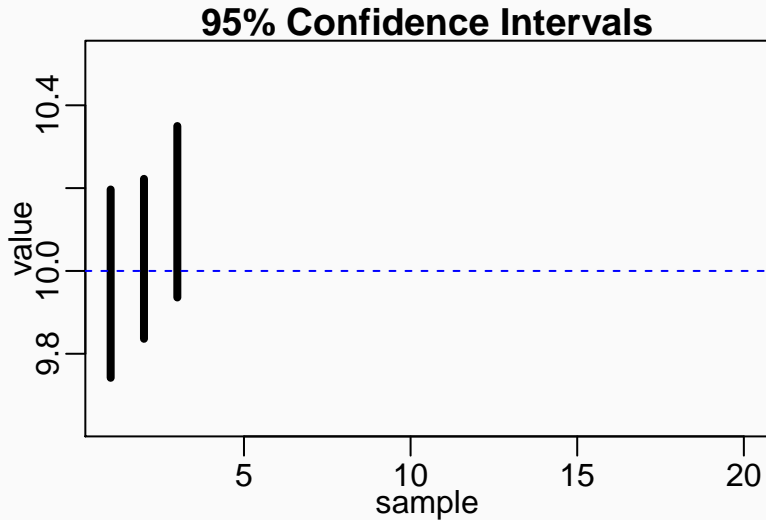
Confidence Interval Interpretation

David Gerard

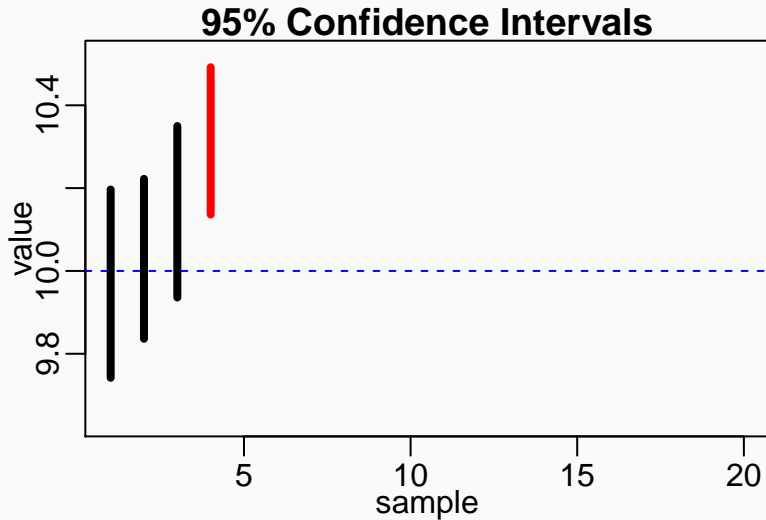
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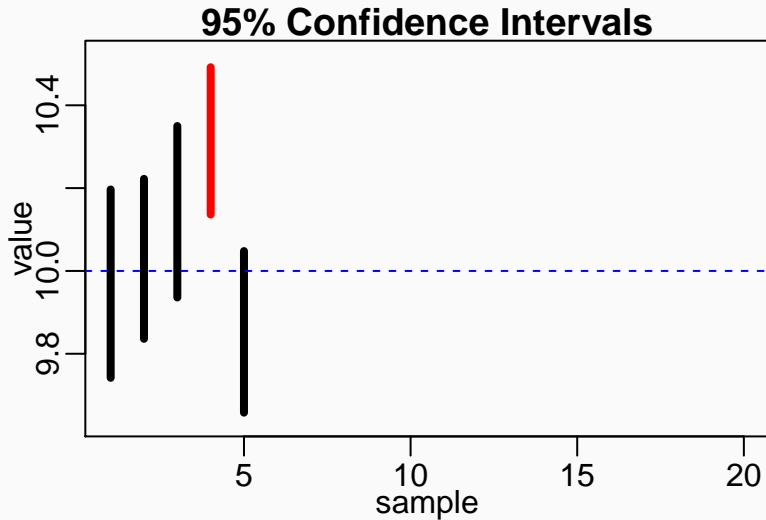




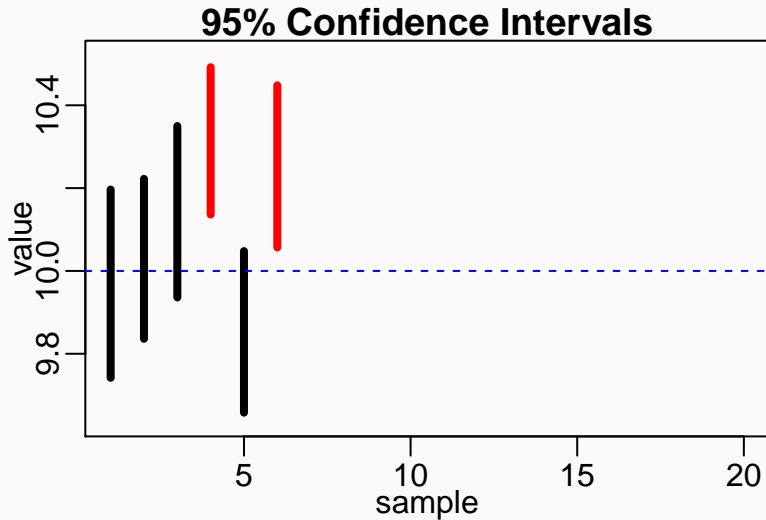


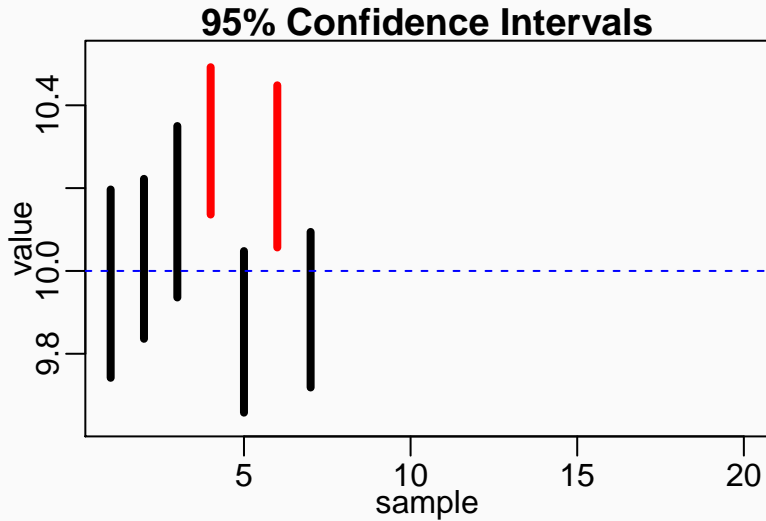
Covering True Mean iv

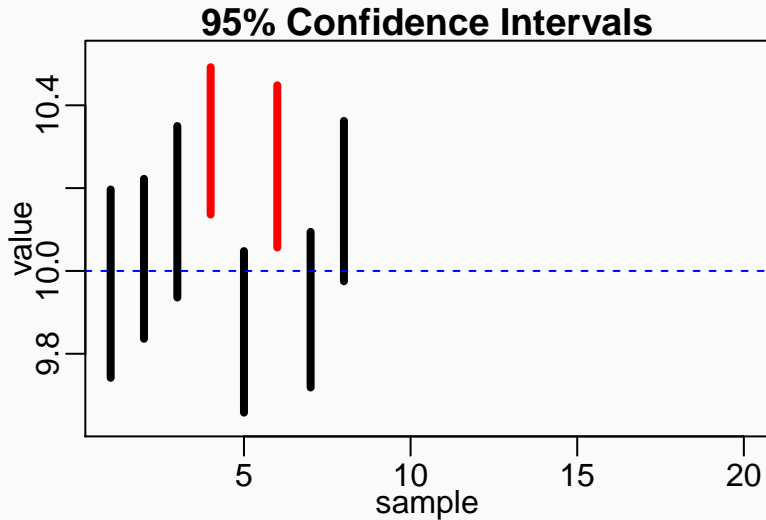


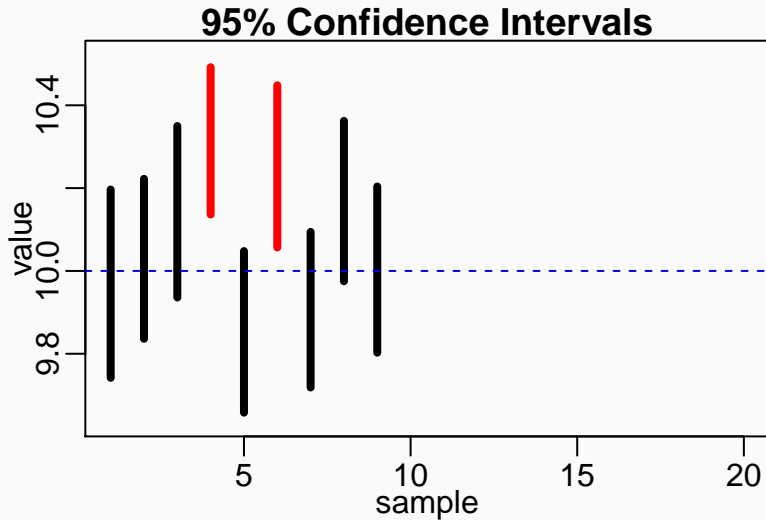


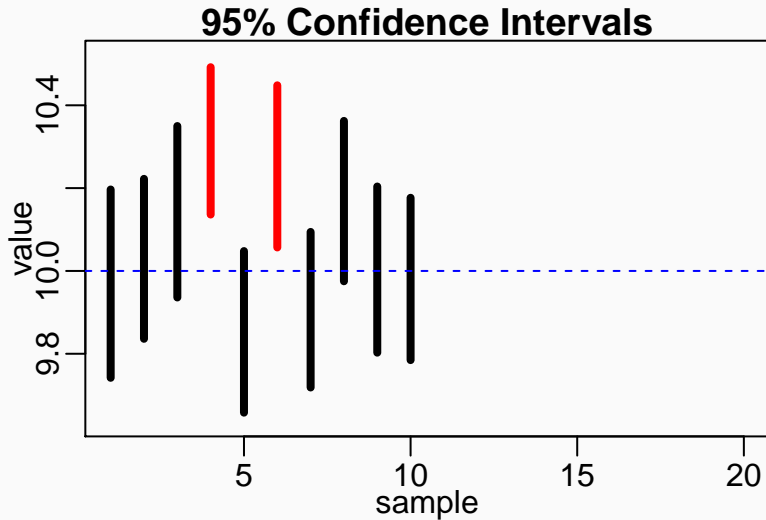
Covering True Mean μ

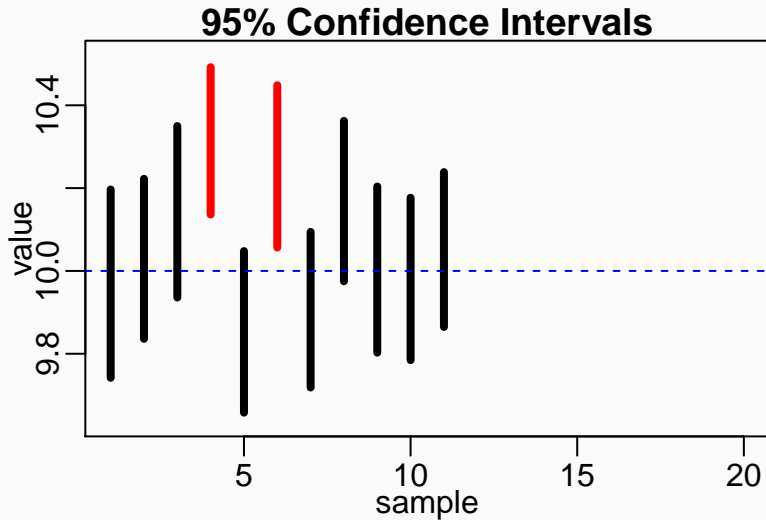


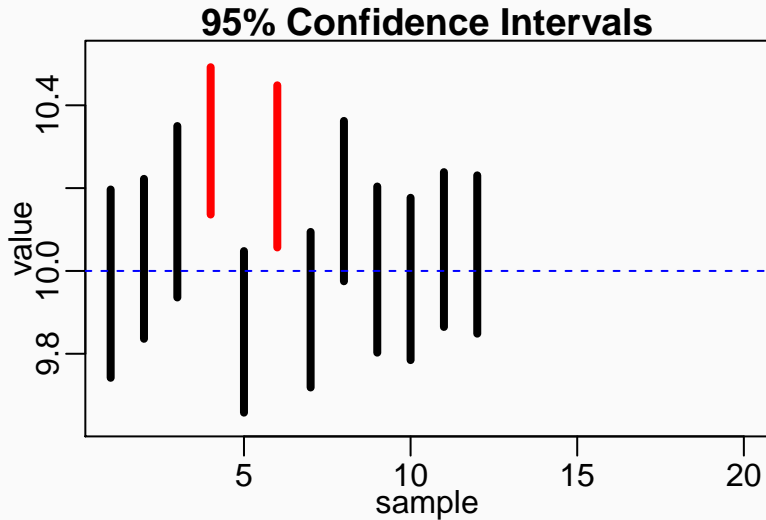


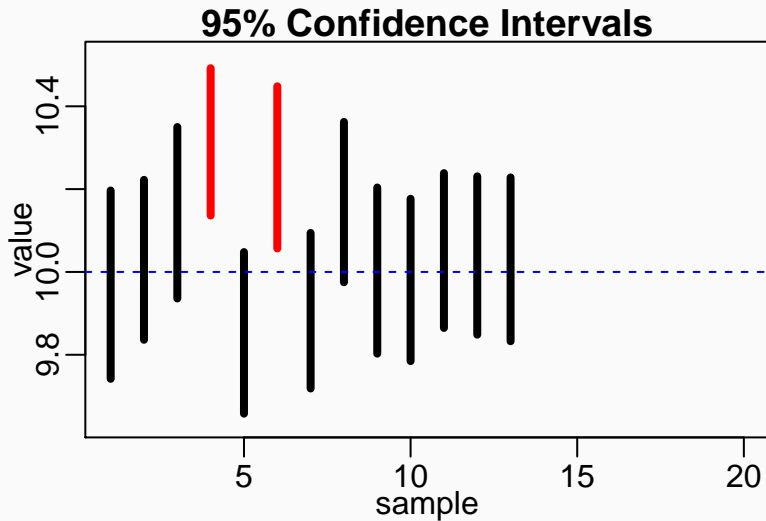


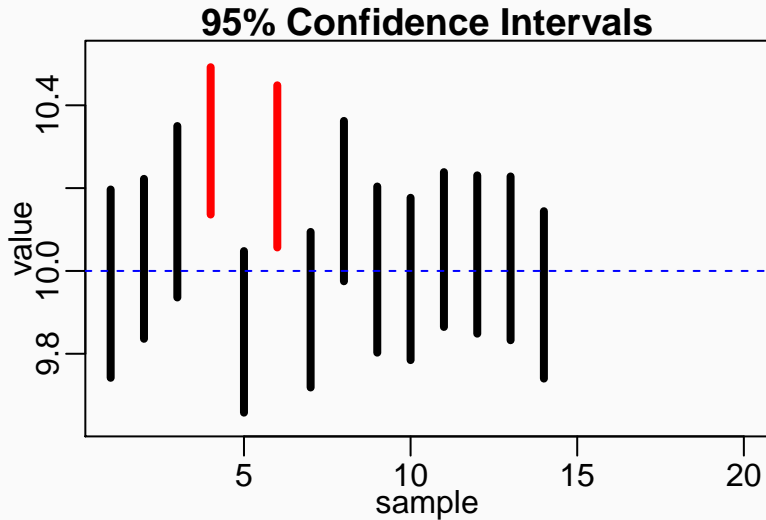


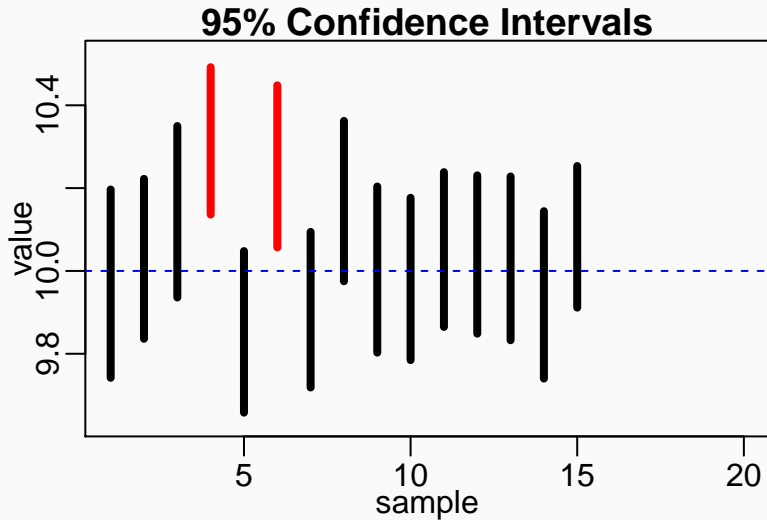


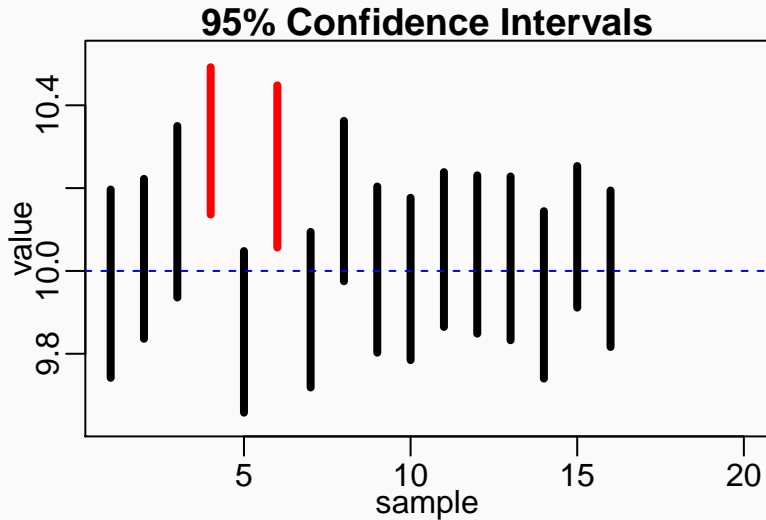


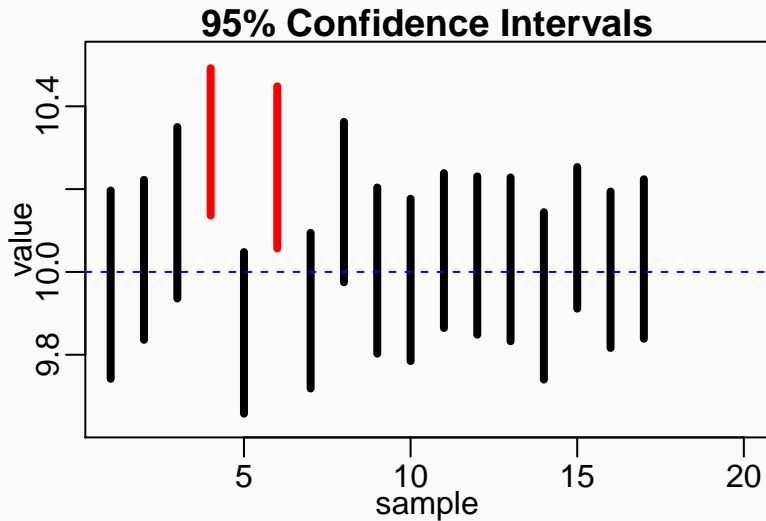


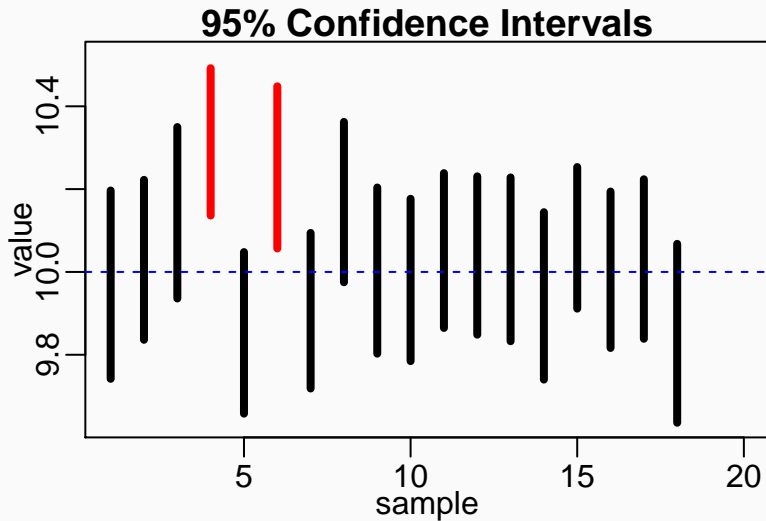


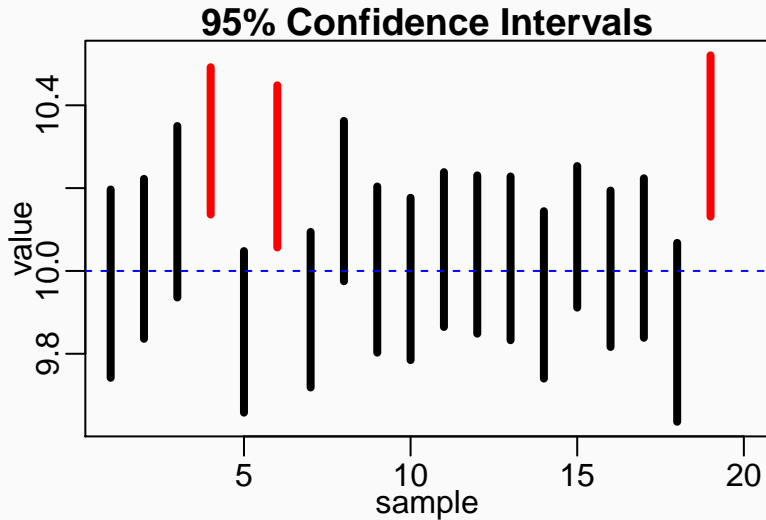


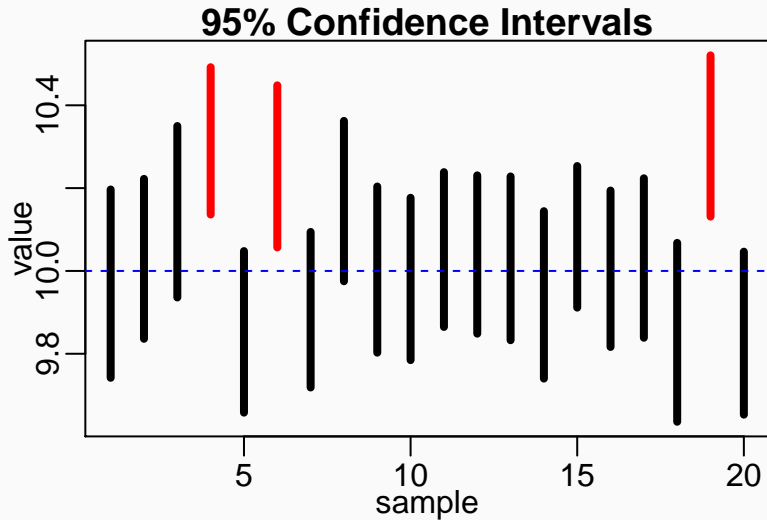












Correct/Incorrect Descriptions of CI

Let l and u be the lower and upper bounds, respectively, of a 95% confidence interval.

What does “With 95% Confidence, μ is between (l, u) ” mean?

Which interpretations are correct/incorrect?

1. The probability of μ being between l and u is 95%.
2. Prior to sampling, the probability of μ being captured by our confidence interval is 95%.
3. 95% of the population's distribution is between l and u .
4. If we were to draw another sample, the new \bar{X} would be between l and u with 95% probability.
5. 95% of new \bar{X} 's would lie between l and u .
6. We used a procedure that captures the true μ 95% of the time in repeated samples.