Congratulations! You passed!

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1. For a random variable $X \sim N(\mu, \sigma^2)$. find the MLE for μ, σ^2 A = $$\overline{X}, \frac{\sum_i(X-\overline{X})^2}{n}\\\\$B = \overline{X}, \frac{\sum_i(X-\overline{X})^2}{n-1}$$ **1 / 1 point**

- (●) A
- ( ) B

✓ **Correct**
Correct. The MLE is the sample mean.

2. Does the MLE of the last question agree with that of the MoM estimator? **1 / 1 point**

- (●) Yes
- ( ) No

✓ **Correct**
Correct! In this case, the two agree.

3. The MLE estimator is invariant to transformation. If you want an estimate for μ^2 and have the estimate for μ, you can simply take the estimate $\hat{\mu}^2$. **1 / 1 point**

- (●) True
- ( ) False

Correct

MLE's are invariant to transformations. NOTE: the bias in the estimate is not!