

Q → Why Sample Variance is divided by  $N-1$ ?

→ Because we are trying to reveal information about a population by calculating the variance from a sample set, we probably do not want to underestimate the variance. By dividing by  $(n)$  we are underestimating the true population variance. That's why we use  $(N-1)$  as it is a smaller number than  $(n)$ . and when ~~you~~ we divide by a smaller number we get a larger number, and there is a greater chance that it captures the true population variance.