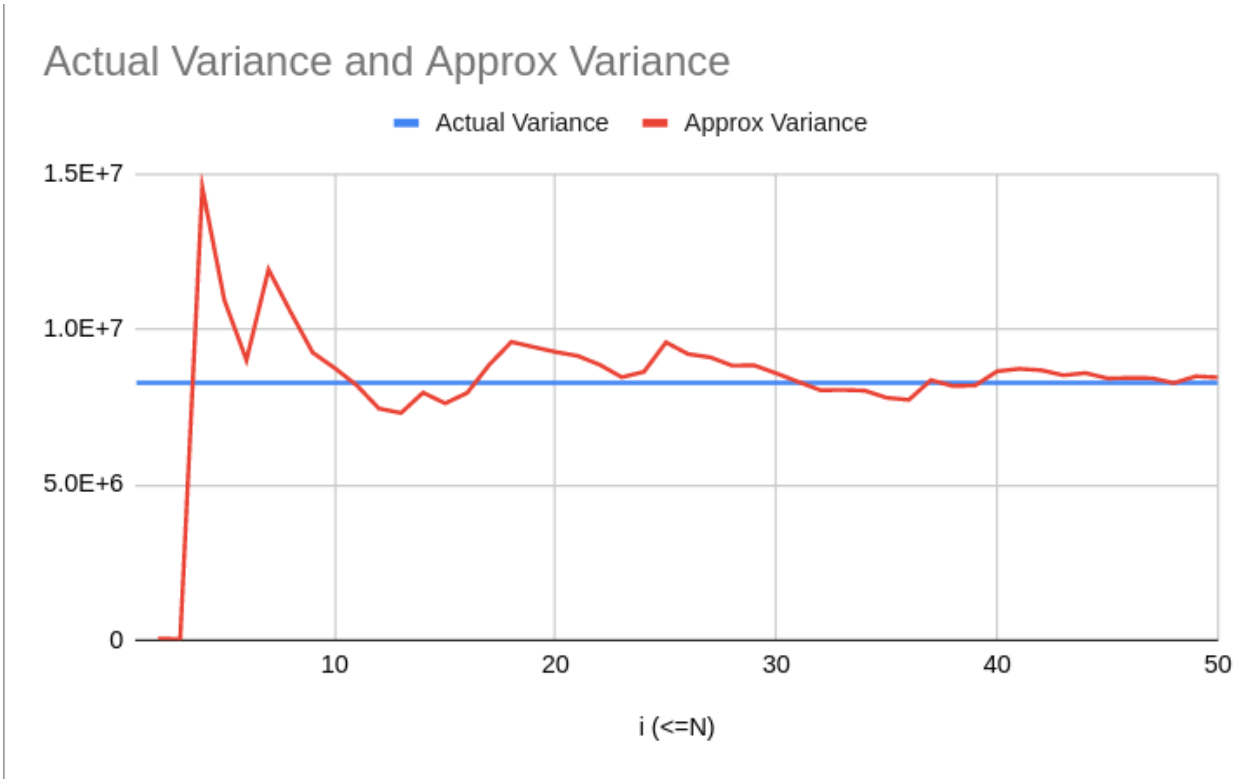
Q4(b) REPORT



Approximate variance has been calculated by this formula:

$$s^2 = \frac{\Sigma X^2 - \frac{(\Sigma X)^2}{N}}{N-1}$$

We can infer from the graph, that the deviation of Approximate Variance from the actual variance of the population decreases as we move from i=1 to i=N.

So accuracy of approximate variance increase as more and more numbers in the data are scanned.