49 righe
$$\begin{cases} X_{1,1} & X_{1,2} & \cdots & X_{1,2500} \\ X_{2,1} & X_{2,2} & \cdots & X_{2,2500} \\ \vdots & \vdots & \ddots & \vdots \\ X_{49,1} & X_{49,2} & \cdots & X_{49,2500} \end{cases} \qquad X_{i,j} \sim \mathcal{U}(0,1)$$

49 righe
$$\begin{cases} X_{1,1} & X_{1,2} & \cdots & X_{1,2500} \\ X_{2,1} & X_{2,2} & \cdots & X_{2,2500} \\ \vdots & \vdots & \ddots & \vdots \\ X_{49,1} & X_{49,2} & \cdots & X_{49,2500} \end{cases} X_{i,j} \sim \mathcal{U}(0,1)$$

$$\overline{X}_1 = \frac{1}{49} \sum_{i} \frac{X_{i,1}}{X_{i,1}}$$
 $\underset{\Rightarrow \text{TLC}}{\approx} N\left(\mu, \frac{\sigma^2}{49}\right)$

49 righe
$$\begin{cases} X_{1,1} & X_{1,2} & \cdots & X_{1,2500} \\ X_{2,1} & X_{2,2} & \cdots & X_{2,2500} \\ \vdots & \vdots & \ddots & \vdots \\ X_{49,1} & X_{49,2} & \cdots & X_{49,2500} \end{cases} \qquad X_{i,j} \sim \mathcal{U}(0,1)$$

$$\overline{X}_{1} = \frac{1}{49} \sum_{i} X_{i,1}
\overline{X}_{2} = \frac{1}{49} \sum_{i} X_{i,2}
\xrightarrow{\text{TLC}} N\left(\mu, \frac{\sigma^{2}}{49}\right)$$

49 righe
$$\begin{cases} X_{1,1} & X_{1,2} & \cdots & X_{1,2500} \\ X_{2,1} & X_{2,2} & \cdots & X_{2,2500} \\ \vdots & \vdots & \ddots & \vdots \\ X_{49,1} & X_{49,2} & \cdots & X_{49,2500} \end{cases} \qquad X_{i,j} \sim \mathcal{U}(0,1)$$

$$X_{i,j} \sim \mathcal{U}(0,1)$$

$$\overline{X}_{1} = \frac{1}{49} \sum_{i} X_{i,1}$$

$$\overline{X}_{2} = \frac{1}{49} \sum_{i} X_{i,2}$$

$$\vdots$$

$$\overline{X}_{2500} = \frac{1}{49} \sum_{i} X_{i,2500}$$

$$\xrightarrow{\text{TLC}} N\left(\mu, \frac{\sigma^{2}}{49}\right)$$

$$\underset{\mathsf{TLC}}{pprox} N\left(\mu, \frac{\sigma^2}{49}\right)$$