$$2^x \; e^{-1} \geq k\alpha \;|^{\log 2}$$

$$x\,(x-1)\log_2 e \geq \log_2 k\alpha$$

$$x \leq \frac{\log_2 k\alpha}{\log_2 e} = k'$$

$RC: \{x \leq k'\}$

$\alpha = P(\text{eroare de tip I})$

$= P(\text{respingi } H_0 \mid H_0) =$

$= P(x \leq k' \mid \lambda = 1) =$

$= \int_0^{k'} \frac{1}{x!} \cdot e^{-1} dx$

$= e^{-1} \int_0^{k'} \frac{1}{x!} dx$