$$-n\lambda + lu(\lambda) \{ \{ x_i \} - lu(T(x_i!) \}$$

2) for finding MLE
$$\hat{\lambda}$$

$$-h + \frac{z_{\times i}}{\lambda} = 0 = \sum_{i=1}^{n} \frac{z_{\times i}}{\lambda}$$

3)
$$E[\hat{\lambda}] = \underbrace{E[(x;)]}_{n} = \underbrace{h \cdot \lambda}_{n} = \underbrace{L}_{n}$$

$$Var[\lambda] = Var[\frac{1}{n} \le x;] = \frac{1}{n^2} \in Var[x;] = \frac{n\lambda}{n^2} = \begin{bmatrix} \frac{1}{n} \\ \frac{1}{n} \end{bmatrix}$$

u)
$$\Phi(0.975) = -\Phi(0.025)$$
 so

$$\frac{1}{x} \pm \frac{1}{4} (0.9-75) / \frac{1}{n}$$