

$$1) f_{\theta} = \begin{cases} 1 & y \in [0, \theta+1] \\ 0 & \text{otherwise} \end{cases}$$

$$b) L = \frac{1}{1^n} = 1$$

$$c) \tilde{\theta} = \max \{y_1, \dots, y_n\}$$

$$d) \hat{\theta} = 1.2$$

e) Cannot be a true model since $(\theta+1) - \theta = 1$ but $1.2 - 0.1 = 1.1 > 1$

~~$$f) F_y(t_y) = \begin{cases} 0 \end{cases}$$~~

No since depends on θ .

$$g) \left(\frac{1.2}{(0.95)^{1/4}}, \infty \right)$$