

Taking log en both sides $ln L(0) = \sum_{i=1}^{n} \left[ln Cn_i + ni ln O + (n-ni) an (1-0) \right]$

differentiate wrt 0

den $L(0) = \sum_{i=1}^{n} \left[\frac{x_i}{0} - \frac{n-x_i}{1-0} \right] = 0$

 $\frac{2}{2} \left[\frac{x_i}{0} - \frac{y_i - z_i}{1 - \theta} \right] = 0$

 $\frac{n}{2} \left(\frac{(1-0)ni - o(n-xi)}{o(1-0)} \right) = 0$

 $\frac{n}{2} (1-0) n_i - (n-n_i)0 = 0$ $\frac{n}{(2)} \sum_{i=1}^{n} x_i = \sum_{i=1}^{n} x_i m$ $\frac{n}{(2)} \sum_{i=1}^{n} x_i = \sum_{i=1}^{n} x_i m$ $\frac{n}{(2)} \sum_{i=1}^{n} x_i = \sum_{i=1}^{n} x_i m$