Assignment; l'anameter estimation.

Let us consider a random Sample $(X_1, X_2, X_3, ..., X_n)$, where $u = O_1(mean)$ and $n^2 = O_2(variance)$

So likelihood for
$$L(0_1, 0_2) = \frac{m}{11} \frac{1}{(211.02)^2} = \frac{(\chi_1^2 - 0_1^2)^2}{202}$$

to man. (logarithm)

$$\ln L(Q_1,Q_2) = \sum_{i=1}^{n} \left[-\frac{1}{2} \ln(2\pi Q_2) - (2i - Q_1)^2 \right].$$

$$\frac{d \ln L(O_1,O_2)}{dO_1} = \sum_{i=1}^{n} \left[\frac{(2i-O_1)^2}{O_2} \right] = 0.$$

$$\Rightarrow \begin{array}{c} \chi' - nq = 0 \\ Q = \sum_{i=1}^{n} \chi_i \\ mean \end{array}$$

$$\frac{d \ln L(0_1, 0_2)}{d o_2} = \sum_{i=1}^{n} \int_{-20_2}^{-1} \frac{(2i - o_1)^2}{20_2^2} \int_{-20_2}^{2} 0.$$

$$\frac{m}{202} = \frac{1}{201^2} \sum_{i=1}^{m} (x_i - 0_i)^2$$

$$Q_2 = \frac{1}{n} \sum_{i=1}^{n} (x_i - Q_i)^2$$

(variance)

Parameter estimation.

brobasility mass functions.

taking lag

diff. wint o

$$\frac{d\left(\operatorname{len}\left(L(0)\right)\right)}{d0} = \sum_{i=1}^{m} \left[\frac{2i'}{0} - \frac{(n-2i)}{1-0}\right] = 0.$$

$$\frac{n}{2} (1-0)\pi(1-0(n-x))=0$$

$$0 \sum_{i=1}^{n} 2i' = \sum_{i=1}^{n} 2i' \cdot m.$$

$$0 = \frac{\sum_{i=1}^{n} x_{i}}{n.m}$$