$$X = \begin{cases} X & \text{if } X & \text{polarize is antity at we set } Y & \text{first } X & \text{first } X$$

$$\hat{\mu} = \sum_{i,j}^{\infty} x_i^{j}$$

$$\Rightarrow \Pr\left[\frac{|\hat{\mu} - \mu| \leq \varepsilon}{\sigma / \ln \sigma}\right] \geq 0.95$$

$$= Pr \left[-\frac{\varepsilon}{\sigma \ln} \le z \le \frac{\varepsilon}{\sigma \ln} \right]$$

$$= \frac{\Phi}{\Phi} \left(\frac{\varepsilon}{\sigma/m} \right) - \frac{\Phi}{\Phi} \left(\frac{-\varepsilon}{\sigma/m} \right)$$

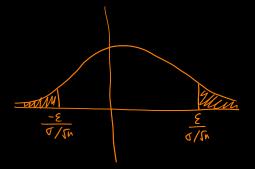
$$= \bar{\Phi} \left(\frac{\varepsilon}{\alpha / n} \right) - \left(1 - \bar{\Phi} \left(\frac{\varepsilon}{\alpha / n} \right) \right)$$

$$= 2 \overline{\Phi} \left(\frac{\varepsilon}{6/\sqrt{n}} \right) - 1 \leq 0.95$$

$$=$$
 $\Rightarrow \Phi\left(\frac{\varepsilon}{\sigma/m}\right) \leq 0.975$

=)
$$\xi \leq 1.96 \, d = 1.96 \, \frac{0.5}{10000}$$

given or given = $\frac{0.88}{100}$



$$\sigma = \sqrt{p(1-p)} \leq \sqrt{0.25} = 0.5$$

$$X_1 \sim Pois(\lambda)$$

$$\sigma = \lambda \le 10$$



6

(hins-1 + balls)

$$\begin{pmatrix} 4 \\ 3 \end{pmatrix} = 4$$



$$\sigma = \sqrt{\operatorname{Vor}(X_i^*)}$$

$$\frac{\sigma}{\sqrt{n}} = \sqrt{Var(\hat{\mu})}$$

$$\chi_{1} + \chi_{2} + \chi_{3} = 100$$

$$\chi_{1}, \chi_{2}, \chi_{3} \ge 0, \in \mathbb{Z}$$

$$\chi_{1} = \chi_{2} \times \chi_{3}$$
How many solution?
$$\binom{100-1+3}{3} = \binom{102}{3}$$