Fitting Poission Distribution

① fit the following into poission

x:	0	1	2	3	4
freq:	123	59	14	3	1

→ Fitting a distribution means finding expected frequencies of x

$$\text{Mean} = \frac{\Sigma f_i x_i}{\Sigma f_i} = \frac{100}{200} = 0.5$$

$\therefore \lambda = 0.5$

$$P(x = x) = \frac{e^{-\lambda} \lambda^x}{x!}$$

$$P(x = 0) = \frac{e^{-\lambda} \lambda^0}{0} = e^{-0.5} = 0.606$$