- 7+9+101 SIL POPE
$$\frac{1}{\sqrt{2\pi}}e^{-\frac{(x^{(4)}-a)^2}{26^2}}$$

$$\frac{\partial}{\partial u} \sum_{k=1}^{N} \left\{ log \left(\frac{1}{\sqrt{2\pi} 6} \right) - \frac{1}{26^{2}} \left(\pi^{(N)} - u \right)^{2} \right\} = -\frac{1}{26^{3}} \frac{\partial}{\partial u} \sum_{k=1}^{N} \left(\pi^{2(N)} - 2\pi^{(N)} u + u^{2} \right)$$

$$= -\frac{1}{26^{3}} \frac{\partial}{\partial u} \sum_{k=1}^{N} \left(-2\pi^{(k} u + u^{2}) \right) = -\frac{1}{26^{3}} \sum_{k=1}^{N} \left(-2\pi^{(k)} + 2u \right) = \frac{1}{6^{3}} \sum_{k=1}^{N} \left(\pi^{2(N)} - 2\pi^{(N)} u + u^{2} \right)$$

$$= -\frac{1}{26^{3}} \frac{\partial}{\partial u} \sum_{k=1}^{N} \left(-2\pi^{(k)} u + u^{2} \right) = -\frac{1}{26^{3}} \sum_{k=1}^{N} \left(-2\pi^{(k)} + 2u \right) = \frac{1}{6^{3}} \sum_{k=1}^{N} \left(\pi^{2(N)} - 2\pi^{(N)} u + u^{2} \right)$$

$$= -\frac{1}{26^{3}} \frac{\partial}{\partial u} \sum_{k=1}^{N} \left(-2\pi^{(k)} u + u^{2} \right) = -\frac{1}{26^{3}} \sum_{k=1}^{N} \left(-2\pi^{(k)} u + u^{2} \right)$$

$$= -\frac{1}{26^{3}} \frac{\partial}{\partial u} \sum_{k=1}^{N} \left(-2\pi^{(k)} u + u^{2} \right) = -\frac{1}{26^{3}} \sum_{k=1}^{N} \left(-2\pi^{(k)} u + u^{2} \right)$$

$$= -\frac{1}{26^{3}} \frac{\partial}{\partial u} \sum_{k=1}^{N} \left(-2\pi^{(k)} u + u^{2} \right) = -\frac{1}{26^{3}} \sum_{k=1}^{N} \left(-2\pi^{(k)} u + u^{2} \right)$$

$$= -\frac{1}{26^{3}} \frac{\partial}{\partial u} \sum_{k=1}^{N} \left(-2\pi^{(k)} u + u^{2} \right) = -\frac{1}{26^{3}} \sum_{k=1}^{N} \left(-2\pi^{(k)} u + u^{2} \right)$$

$$\frac{d}{d6^{2}} \sum_{k=1}^{N} \left\{ \log \left(\frac{1}{10\pi 6} \right) - \frac{1}{26^{2}} \left(\chi^{(k} - u)^{2} \right) = \frac{d}{d6^{2}} \sum_{k=1}^{N} \left\{ -\log \left(\sqrt{2\pi 6} \right) - \frac{1}{26^{2}} \left(\chi^{(k} - u)^{2} \right) \right\} \\
= \frac{d}{d6^{3}} \sum_{k=1}^{N} \left\{ -\frac{1}{2} \log \left(2\pi 6^{2} \right) - \frac{1}{26^{3}} \left(\chi^{(k} - u)^{2} \right) \right\} = \frac{d}{d6^{2}} \sum_{k=1}^{N} \left(-\frac{\log 6^{2}}{2} - \frac{1}{26^{2}} \left(\chi^{(k} - u)^{2} \right) \right) \\
= -\frac{N}{K} \left(\frac{1}{26^{2}} - \frac{1}{26^{4}} \left(\chi^{(k} - u)^{2} \right) = -\frac{N}{K} \left(\frac{1}{6^{2}} - \frac{1}{6^{4}} \left(\chi^{(k} - u)^{2} \right) = 0 \\
-\frac{N}{K} \frac{1}{6^{2}} + \frac{N}{K} \frac{1}{6^{4}} \left(\chi^{(k} - u)^{2} \right) = 0 \quad N6^{2} = \frac{N}{K} \left(\chi^{(k} - u)^{2} \right) = 0$$

$$b = \frac{1}{N} \sum_{k=1}^{N} \left(2 \left(x - u \right)^{2} \right)$$

가위한 분명을 따르는 데이터 다한 MLE의 평균은 데이터 모인트 다들의 장난이다.