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PS7 — Q1.2

Log likelihood for each second

Second 1 → $\log P(17; y) = \log \left(\dfrac{e^{-\lambda} \cdot \lambda^{17}}{17!} \right)$

$= -\lambda + 17 \log \lambda - \log (17!)$

Second 2 → $\log P(8; \lambda) = -\lambda + 8 \log \lambda - \log (8!)$

Second 3 → $\log P(13, \lambda) = -\lambda + 13 \log \lambda - \log (13!)$

Second 4 → $\log P(11; \lambda) = -\lambda + 11 \log \lambda - \log (11!)$

second 5 → $\log P(8; \lambda) = -\lambda + 8 \log \lambda - \log (8!)$

second 6 → $\log P(11, \lambda) = -\lambda + 11 \log \lambda - \log (11!)$

Second 7 → $\log P(16; \lambda) = -\lambda + 16 \log \lambda - \log (16!)$

Second 8 → $\log P(7; \lambda) = -\lambda + 7 \log \lambda - \log (7!)$

second 9 → $\log P(15; \lambda) = -\lambda + 15 \log \lambda - \log (15!)$

second 10 → $\log P(13; \lambda) = -\lambda + 13 \log \lambda - \log (13!)$