Charudatta Deshpande PS7 - Q1.2 Log likelihood for each second Second $1 \rightarrow \log P(17;y) = \log \left(\frac{e^{-\lambda}}{17T}\right)$ = - 1 + 17 log / - log (171) Second 2 -> log P(8; X) = -1+8 log 1 - log (8!) Second 3 - log P(13, 1) =- 1 + 13 log / - log (13!) Second 4 -> Log P (18; 1) = -> + 11 Log 1 - Log (11!) second $5 \rightarrow \log P(8;\lambda) = -\lambda + 8\log\lambda - \log(8!)$ Second 6 -> log P(11, 1)=->+11 log >- log (11!) 7-1/09P(16, x)=-x+16/09x-105(16!) Sccond 8 -> ly1(7; 1)=-x+7/09/- log (7/) Sccond 9 -> Log P(15; 1) =- > + 15 Log) - Log (15! > second (0 + Log ((B;)) = - \ +13 Log \ -Log (13) second