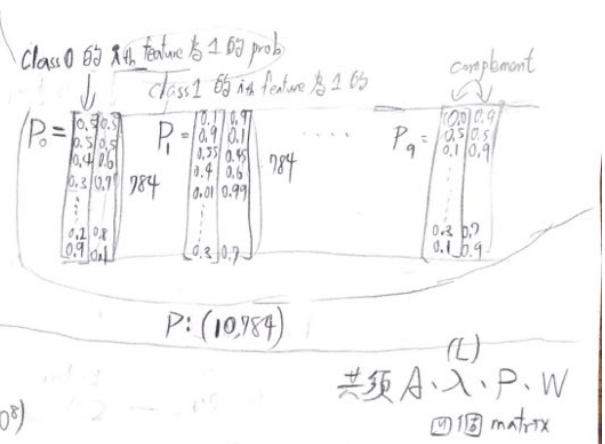
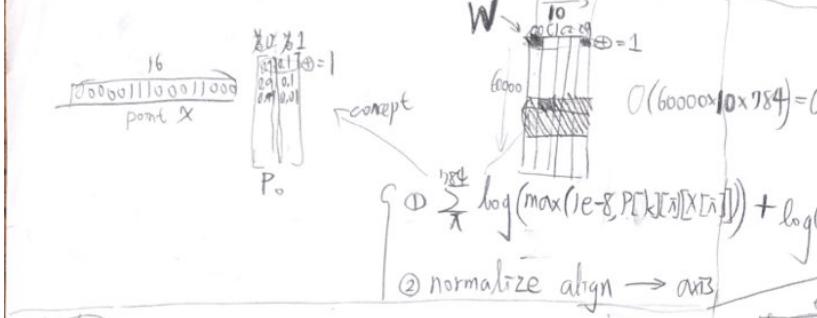


E-step

$$P(C_0|x) = \frac{P(x|C_0)P(C_0)}{P(x)} = \frac{P(x|C_0) \prod_{i=1}^n P(x_i|C_0)}{P(x)}$$

$$P(x) = \sum_{k=0}^9 \frac{P(x|C_k) \prod_{i=1}^n P(x_i|C_k) + \lambda[C_0]}{P(x)}$$



M-step

