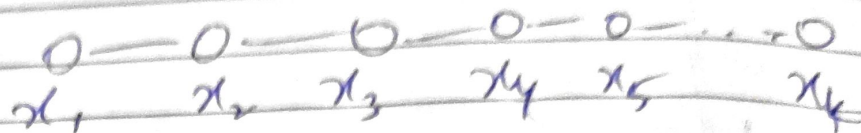


Draw N samples

for $i = 1 \dots k$

randomly set x_i



for $i = 1$ to N :

for $m = 1$ to k

Sample x_m given all other $x_{m \neq m}$

$$\text{Let } P(x_i = 0 \mid x_{j \neq i}) = \alpha$$

$$P(x_i = 1 \mid x_{j \neq i}) = \beta$$

To Update the Count:

$$\text{Count}[i][0] += \frac{\alpha}{\alpha + \beta}$$

$$\text{Count}[i][1] += \frac{\beta}{\alpha + \beta}$$