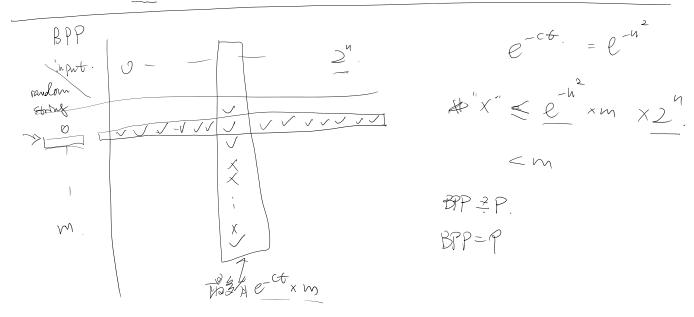
$$\left(\frac{b}{5}\right)$$
 xs. + $1 = 2$.

$$\left(\frac{M}{M-1}-1\right)$$
 \times $M-1+1=2$.



日内 3. 多版的账间签行为

Probability Amplituation.

$$\begin{array}{lll}
\Gamma, & \Gamma' : \\
\Gamma_1 = \Gamma + \Gamma' & (md/P) \\
\Gamma_2 = \Gamma + 2\Gamma' \\
\Gamma_3 = \Gamma + 3\Gamma'
\end{array}$$

$$\begin{array}{lll}
\Gamma_4 = \Gamma + 5\Gamma' \\
\Gamma_5 = \Gamma + 5\Gamma'
\end{array}$$

$$\begin{array}{lll}
\Gamma_6 = \Gamma + 5\Gamma'
\end{array}$$

$$\begin{array}{lll}
\Gamma_7 = \Gamma + 5\Gamma'
\end{array}$$

$$\begin{array}{lll}
\Gamma_8 = \Gamma + 5\Gamma'
\end{array}$$

$$P_{r}\left(\frac{1}{2}|D(r)|=0\right) = P_{r}\left(\frac{1}{1}X-O(X)|E|^{\frac{1}{2}}\right) = \frac{1}{1}O_{r}(X)$$

$$G(X) = \frac{1}{1}E(AH) = \frac{1}{2}.$$

$$V_{ar}(X) = V_{ar}\left(\frac{1}{2}|AHr)\right) = \frac{1}{1}V_{ar}(AU) + \frac{1}{1}\left[\frac{1}{2}(C_{r}(Ar), A_{1}Q)\right]$$

$$P_{r}(A+1) = \frac{1}{1}(C_{r}(AP)) = \frac{1}{1}V_{ar}(AU) + \frac{1}{1}\left[\frac{1}{2}(C_{r}(Ar), A_{1}Q)\right]$$

$$P_{r}(A+1) = \frac{1}{1}(C_{r}(AP)) = \frac{1}{1}V_{ar}(AP)$$

$$P_{r}(A+1) = \frac{1}{1}(C_{r}(AP)) = \frac{1}{1}(C_{r}(AP)) = \frac{1}{1}V_{ar}(AP)$$

$$P_{r}(A+1) = \frac{1}{1}(C_{r}(AP)) = \frac{1}{1}(C_{r}(AP)) = \frac{1}{1}(C_{r}(AP)) = \frac{1}{1}(C_{r}(AP))$$

$$P_{r}(A+1) = \frac{1}{1}(C_{r}(AP)) = \frac{1}{1}(C_{r}(AP)) = \frac{1}{1}(C_{r}(AP)) = \frac{1}{1}(C_{r}(AP))$$

$$P_{r}(A+1) = \frac{1}{1}(C_{r}(AP)) = \frac{1}{1}(C$$

Case 1. $P(Q_{R}(\Gamma_{2}; --, \Gamma_{n}) \ge 0)$ $\leq \frac{d-k}{|S|}$ $P(A) \le \frac{d-k}{|S|}$ $P(A) \le \frac{d-k}{|S|}$ $P(A) \le \frac{d-k}{|S|}$ $P(A) \le \frac{k}{|S|}$ $P(A) \le \frac{k}{|S|}$

$$f(x_1)$$

< k

$$P_{r}(B) = P_{r}(B,A) + P_{r}(B,\overline{A})$$

 $\leq P_{r}(B)$ $\leq P_{r}(B|\overline{A})$

Perfect matching

$$\begin{array}{c} A_{1} \\ A_{2} \\ A_{3} \\ A_{4} \\ A_{5} \\ A_{7} \\$$

Apa
$$B_1$$
 $M = \begin{pmatrix} 0 & x_{12} & 0 \\ x_{21} & 0 & 0 \\ 0 & x_{32} & x_{33} \end{pmatrix}$ $M = \begin{pmatrix} 0 & x_{12} & 0 \\ x_{21} & 0 & 0 \\ 0 & x_{32} & x_{33} \end{pmatrix}$ $M = \begin{pmatrix} 0 & x_{12} & 0 \\ x_{21} & 0 & 0 \\ 0 & x_{32} & x_{33} \end{pmatrix}$ $M = \begin{pmatrix} 0 & x_{12} & 0 \\ x_{21} & 0 & 0 \\ 0 & x_{32} & x_{33} \end{pmatrix}$ $M = \begin{pmatrix} 0 & x_{12} & 0 \\ x_{21} & 0 & 0 \\ 0 & x_{32} & x_{33} \end{pmatrix}$ $M = \begin{pmatrix} 0 & x_{12} & 0 \\ x_{21} & 0 & 0 \\ 0 & x_{32} & x_{33} \end{pmatrix}$ $M = \begin{pmatrix} 0 & x_{12} & 0 \\ x_{21} & 0 & 0 \\ 0 & x_{32} & x_{33} \end{pmatrix}$ $M = \begin{pmatrix} 0 & x_{12} & 0 \\ x_{21} & 0 & 0 \\ 0 & x_{32} & x_{33} \end{pmatrix}$ $M = \begin{pmatrix} 0 & x_{12} & 0 \\ x_{21} & 0 & 0 \\ 0 & x_{32} & x_{33} \end{pmatrix}$

perfect matching

= - X12 X21 X33

3 8RT

$$\chi_{1} \sqrt{\chi_{2}} \vee \chi_{3} \longrightarrow$$

$$\chi_1 \vee \overline{\chi}_2 \vee \chi_3 \longrightarrow \underbrace{[-(1-\chi_1)\chi_2(1-\chi_3)]}$$

deg f. ≤3m

$$\frac{1}{1} = \frac{1}{1} = \frac{1$$

 $\underbrace{h_{2}(x,x_{2})} = h_{2}(x,---,x_{n}) \stackrel{\geq}{=} \underbrace{\sum_{x_{2} \sim x_{n}}} f(x,---,x_{n})$ h2(x1,0)+h2(x1)=h1(4) hn(x, --, xn) = f(x, ---, xn) Merlin $\frac{h_1(X_1)}{h_1(X_1)} \leq \frac{h_1(X_1)}{h_1(X_1)} \leq \frac{h_1(X_1)}{h_1(X_1)}$ $=\frac{\operatorname{random}(\Gamma_{1})}{\operatorname{deg}(\operatorname{he}(K_{1},X_{2}))} \leq 3m$ $=\frac{\operatorname{he}(K_{1},X_{2})}{\operatorname{deg}(K_{1},X_{2})} \leq 3m$ $=\frac{\operatorname{he}(K_{1},X_{2})}{\operatorname{he}(K_{1},X_{2})} \leq 3m$ randon 12 h3(r,12, x3) duck h3(r,12,0)+h3(r,12,1) = h2(r,13) random Γπ-1

hn (Γι,Γ2--,Γη-1, Χη)

= hn (Γι, --, Γη-1, Χη)

= f(Γι, --, Γη-1, Χη)

- f(Γι, --, Γη-1, Χη) (l-QXn)(l-Q(l-Xn))($h_i(X_i) \neq \sum_{X_i \in X_i} f(X_i - - i X_i)$ $h_i(I) + h_i(O) \neq O$ Case I. $h_2(\Gamma_1, X_2) \equiv \left(\sum_{X_3, \tau_1 X_1} f(\Gamma_1, X_2, X_3, \tau_2, X_N)\right)$ $\left(h_{2}(\Gamma_{1}, \mathcal{D}) + h_{2}(\Gamma_{1}, 1) = h_{1}(\Gamma_{1})\right) \qquad \leq \left(\frac{d}{|\mathcal{S}|}\right)$ $h_{2}(X_{1}, 0) + h_{2}(X_{1}, 1) \neq h_{1}(X_{1})$ \$ (ase 1 28). h2(r,0) th2(r,1) + h(1) $h_2(\Gamma_1, \chi_2) \neq \sum_{\chi_2, \chi_n} f(\Gamma_1, \chi_2, \dots, \chi_n)$

Case 5.
$$h_2(r_1, r_2, x_3) \equiv \sum_{X_0 \in r_0} f(r_0, r_2, x_3, ..., x_0)^{-1}$$
 $h_3(r_1, r_2, 0) + h_3(r_0, x_0, 1) \neq h_2(r_0, x_0)^{-1}$
 $h_3(r_1, x_2, 0) + h_3(r_0, x_0, 1) \neq h_2(r_0, x_0)^{-1}$
 $h_3(r_1, x_2, 0) + h_3(r_0, x_0, 1) \neq h_2(r_0, x_0)^{-1}$
 $h_3(r_1, x_2, 0) + h_3(r_0, x_0, 1) \neq h_2(r_0, x_0)^{-1}$
 $h_3(r_1, x_2, 0) + h_3(r_0, x_0, 1) \neq h_2(r_0, x_0)^{-1}$
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 $h_3(r_0, x_0, 1) + h_3(r_0, x_0, 1) + h_3(r_0, x_0, 1)$
 $h_3(r_$

~ \(\frac{N}{lmN} = 0 \((N) \).

分区 算法 的第5页

Communication complexicity > Cofn,

P: 1~ N³

Communication complexicity > Cogn,