$$\begin{aligned} & (ij) & \text{Enology of } & \text{Cor}(x,y|z) = E \\ & \text{Cor}(x,y|z)$$

=
$$E[xy|z] - E[x|z] = E[y|z]$$

=> $Cor(x,y|z) = E[xy|z] - E[xy|z] = E[y|z]$
 $Cor(x,y|z) = E[xy] - E[xy] = E[y|z] = E[y|z]$
= $E[xy|z] - E[xy|z] = E[xy|z] = E[xy|z]$
=> $E[xy|z] = Cor(x,y|z) + E[xy|z] = E[xy|z]$
=> $E[xy|z] = E[xy|z] - E[xy|z] = E[xy|z]$
== $E[cor(x,y|z)] + E[xy|z] = E[xy|z] = E[xy|z]$
== $E[cor(x,y|z)] + E[xy|z] = E[xy|z] = E[xy|z]$
== $E[xy] - E[xy] = E[xy|z]$

$$Var(x|y) = E[(x - E[x|y])^{r}|y]$$

$$= E[x^{r} - rxE[x|y] + E[x|y]|y]$$

$$= E[x^{r}|y] - rE[x|y] + E[x|y]$$

$$= Var(x|y) = E[x^{r}|y] - (E[x|y])^{r}$$

$$= \sum_{z=1}^{r} E[x^{r}|y] - E[x^{r}|y] - E[x^{r}|y]$$

$$= \sum_{z=1}^{r} E[x^{r}|y] - E[x^{r}|y] - E[x^{r}|y]$$

$$= \sum_{z=1}^{r} E[x^{r}|y] - E[x^{r}|y]$$

$$Var(E_{CX1YI}) = E_{C(E_{CX1YI})} - (E_{CX1YI}) - (E_{CX1YI})$$

$$= E_{CXI}$$

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= Var(x)

$$Z = \frac{\sum_{i=1}^{n} x_i - nM}{Z - Normal(0.91)}$$

h=50 0

$$= \Phi_{(r)} - \Phi_{(-r)}$$

$$= r\Phi_{(r)} - 1 = \sigma/\Lambda \epsilon rV$$

$$\vdots$$

$$E_{(X)} = \sum_{2=1}^{8} 2^{2}(x=2)$$

$$\sum_{2=1}^{8} 2^{2}(x=2)$$

$$= P_{(x=k)} \times \frac{k(k+1)}{r} > P_{(x=k)} \frac{k^{r}}{r}$$

$$= 3 P (x = k) \leq T E (x)$$

$$E[X] = \int_{0}^{2} 2f_{(2)} dx$$

$$\Rightarrow \int_{0}^{k} x f_{(2)} dx \Rightarrow \int_{0}^{k} x f_{(k)} dx$$

$$= \int_{0}^{k} x f_{(2)} dx = \int_{0}^{k} x f_{(k)} dx$$

$$= \int_{0}^{k} x f_{(2)} dx = \int_{0}^{k} x f_{(k)} dx$$

$$= f_{\chi(k)} \int_{0}^{k} a da = f_{\chi(k)} \frac{k^{r}}{r}$$

$$= \sum_{[x]} \sum_{r} \sum_{x} f_{x(k)}$$

$$= \int_{X(k)} \xi \left[\sum_{k'} \sum_{k'} \frac{1}{k'} \right]$$

$$X = X_1 + X_{c+} \times_{c+} \times + \times_{o}$$

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$$X = X_1 + X_{c+} \times_{o} \times_{o} \times_{o} \times_{o} \times_{o}$$

$$X = X_1 + X_{c+} \times_{o} \times_{o$$

$$P(|X|>e) = P(x,j=0)$$

$$Var(x,j=1)$$

$$Z = \sum_{i=1}^{n} x_{i} - nE_{[x_{i}]}$$

$$6\sqrt{n}$$

$$Z = \frac{X - \omega_{0 \times 0}}{\omega^{r}} = \frac{\sqrt{y}}{\omega} \times$$

$$Z = \frac{X - a_{0 \times 0}}{\sqrt{c}} = \frac{\sqrt{y}}{a} \times \frac{1}{\sqrt{c}}$$

$$\frac{a_{0}\sqrt{c}}{\sqrt{c}} = \frac{\sqrt{y}}{a} \times \frac{1}{\sqrt{c}} \times \frac{1}{\sqrt{c}} \times \frac{1}{\sqrt{c}}$$

$$\frac{a_{0}\sqrt{c}}{\sqrt{c}} = \frac{\sqrt{y}}{a} \times \frac{1}{\sqrt{c}} \times \frac{1}{\sqrt{c}$$

$$= 7 \Phi \left(-\frac{2\sqrt{5}}{\omega}\right) = 6/1617$$

چس تغریا ٤ در صو احتال دارد كر اين تقارت بيخرار ٣ باكو.

$$Z_{n} = \sum_{i=1}^{n} x_{i} - nd$$

$$E_{(x_{i})} = d = \int_{\mathbb{R}^{n}} V_{x_{i}} dx_{i} = \int_{\mathbb{R}^{n}} \int_{\mathbb{R}^{n}} dx_{i} dx_{i} = \int_{\mathbb{R}^{n}} dx_{i} = \int_{\mathbb{R}^{n}} dx_{i} dx_{i} = \int_{\mathbb{R}^{n}} dx_{i} dx_{i} = \int_{\mathbb{R}^{n}} dx_$$

$$P\left(-\frac{1}{r} < \frac{\sum_{i=1}^{n} x_{i}}{n} - d < \frac{1}{r}\right) =$$

$$\left(-\frac{1}{6} + \frac{6}{6} + \frac{2}{5} \times \frac{1}{6} - \frac{1}{6}\right) = \frac{1}{6\sqrt{n}}$$

$$= \begin{pmatrix} -\frac{\sqrt{n}}{\varepsilon} & < Z_n < \frac{\sqrt{n}}{\varepsilon} \end{pmatrix} \simeq \Phi_{\left(\frac{\sqrt{n}}{\varepsilon}\right)} - \Phi_{\left(\frac{\sqrt{n}}{\varepsilon}\right)}$$

$$\Rightarrow^{P}(-\frac{1}{r} < \frac{2}{n} \times i - d < \frac{1}{r}) = r + \frac{2}{n} - 1$$

$$P\left(-\frac{1}{r} < \frac{\sum_{i=1}^{n} x_{i}}{n} - d < \frac{1}{r}\right) > \frac{9a}{1aa}$$

$$\Rightarrow \phi\left(\frac{r}{\epsilon}\right) > \frac{eq}{\epsilon_0}$$

$$= > \frac{\sqrt{n}}{\epsilon} > \frac{195}{160}$$

$$n \in \mathbb{N} = 3 \quad n > 47$$

$$P(x>a) = P(x+b) = P(x+b) = P(x+b)$$

$$P(x>a) = P(x+b) = P(x+b)$$

$$P(x>a) = F(x)$$

$$P(x>a) = F(x)$$

$$P(x>a) = F(x)$$

$$P(x>a) = F(x+b)$$

$$P(x>a) = F(x+b)$$

$$P(x>a) = F(x+b)$$

$$P(x>a) = F(x+b)$$

$$P(x > 6) \le P((x + b)^{5}) \le E(x + b)^{5}$$

$$= 6 + 6$$

$$= 6 + 6$$

$$\frac{1}{2} \left(\frac{1}{2} \right) \leq \frac{6}{6} + \frac{6}{6} = \frac{6}{6} =$$

$$\tilde{a} \times 6$$

$$(X > a) \leq \frac{6}{\tilde{a} + 6} = \frac{\text{Var}(x)}{\text{algorithms}}$$