

$$P(\cancel{X_i} < c < X_i \leq x) \quad m_0(I) = m_0, \quad m(I) = m, \quad X_i > c$$


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$$\boxed{\eta^T y \mid Ay \leq b}$$

$$\eta^T y \mid$$

$$Y \sim N(0, I)$$

$$P(\frac{Y - \eta^T y}{\sqrt{1 - \eta^T \eta}} \leq x, Ay \leq b)$$


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$$P(Ay \leq b) \rightarrow \boxed{\text{known}}$$

also known!

$$P(c < Y_i \leq x, \longleftrightarrow)$$


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$$P(\longleftrightarrow)$$