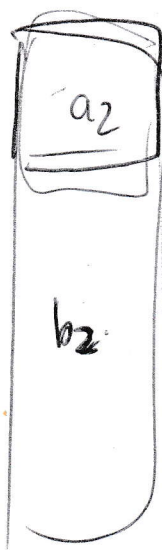


$$\underline{P(\exists y a \in D \cap I \cap \{y=y\})}$$

$$P(I \cap \{y=y\})$$

$$P(Y_2) \\ Y = N(\mu, \sigma^2)$$

$$Y = N(\mu_2, \sigma)$$



$$\frac{a_1}{b_1} < \frac{a_2}{b_2}$$

$$a_1 > a_2, \quad b_1 > b_2.$$

$$a_1 + a_2 > b_1 + b_2.$$

$$\frac{a_1}{a_1 + b_1} < \frac{a_2}{a_2 + b_2}$$

$$a_1 a_2 + a_1 b_2 < a_1 a_2 + a_2 b_1$$



$$a_1 b_2 < a_2 b_1$$

$$\Leftrightarrow a_1(a_2 + b_2) < a_2(a_1 + b_1)$$

$$\Leftrightarrow \frac{a_1}{a_2} < \frac{b_1}{b_2}$$