

①

$$f(x) - \delta \leq -1 + m(1-\delta)$$

$$f(x) - 1 \leq -1 + \delta$$

$$f(x) \leq 0 \quad \text{OR}$$

$$f(x) \leq -1 + m \quad \text{always false}$$

\Leftrightarrow

$$[S = 1]$$

$$\{f \leq 1\}$$

$$\underline{\delta = 1}$$

$$\underline{\delta = 0} \quad \underline{\text{false}}$$

$$f(x) = a^T x + b$$

$$a^T x + b - \delta \leq -1 + m(1-\delta)$$

linear eq. u r, δ
independent