



$$x_1 \in \{0, 1\}$$



$$a_1 \in \{0, 1\}$$



$$x_2 \in \{0, 1\}$$



$$a_2 \in \{0, 1\}$$

...



$$x_{k-1} \in \{0, 1\}$$



$$a_{k-1} \in \{0, 1\}$$



$$x_k \in \{0, 1\}$$

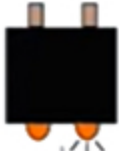


$$a_k \in \{0, 1\}$$

...



$$x_N \in \{0, 1\}$$



$$a_N \in \{0, 1\}$$

\mathcal{D}