

Hash functions

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Binary functions

$$f : \{0, 1\}^* \rightarrow \{0, 1\}^*$$

f is a function that converts strings over $\{0, 1\}$ into other strings over $\{0, 1\}$.

f can be viewed as a map, a subset of $\{0, 1\} \times \{0, 1\}^*$ where no two first elements are equal and every element in $\{0, 1\}$ is a first element.