

$$B = \mathbb{Z}^3 = \mathbb{F}_2$$

$$P: B^3 \times \mathbb{Z}.$$

For a given class x in B^3 , if there are an even amount of 1's then an element $\alpha(0)$ is in \mathbb{F}_2^{10} , otherwise $\alpha(1)$ is in \mathbb{F}_2^{10} .

for all $x \in T^5$ can be mapped onto balanced T^5 by adding $3 \cdot 5 \cdot x \bmod 3$ to x .
 $f(x) = \alpha(3 \cdot \sum x \bmod 3)$

Given all elements of T^5 are unique. The bijection to T^5 is one to one as 2 identical strings cannot be generated from 2 different strings.

Any element from balanced T^5 can have a bit removed to map onto T^5 .

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