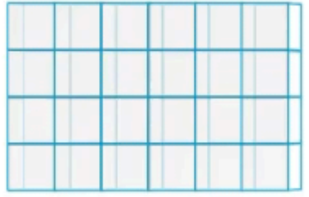
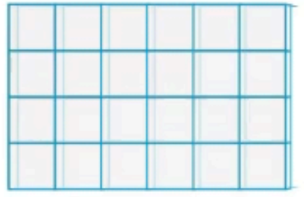
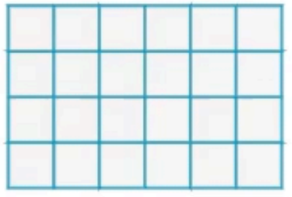
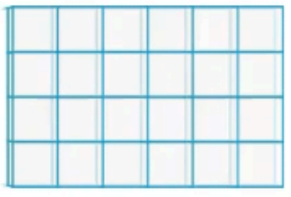
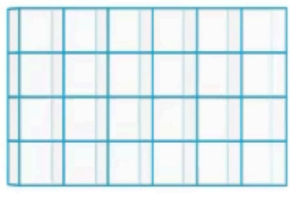
1

Matrix Code Equivalence

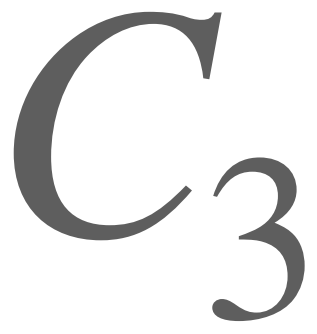
footnote

CD MEDS CD

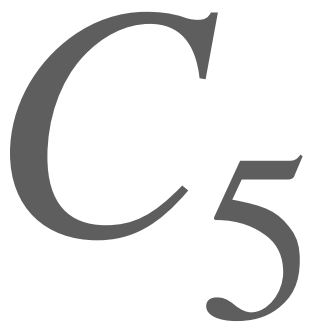






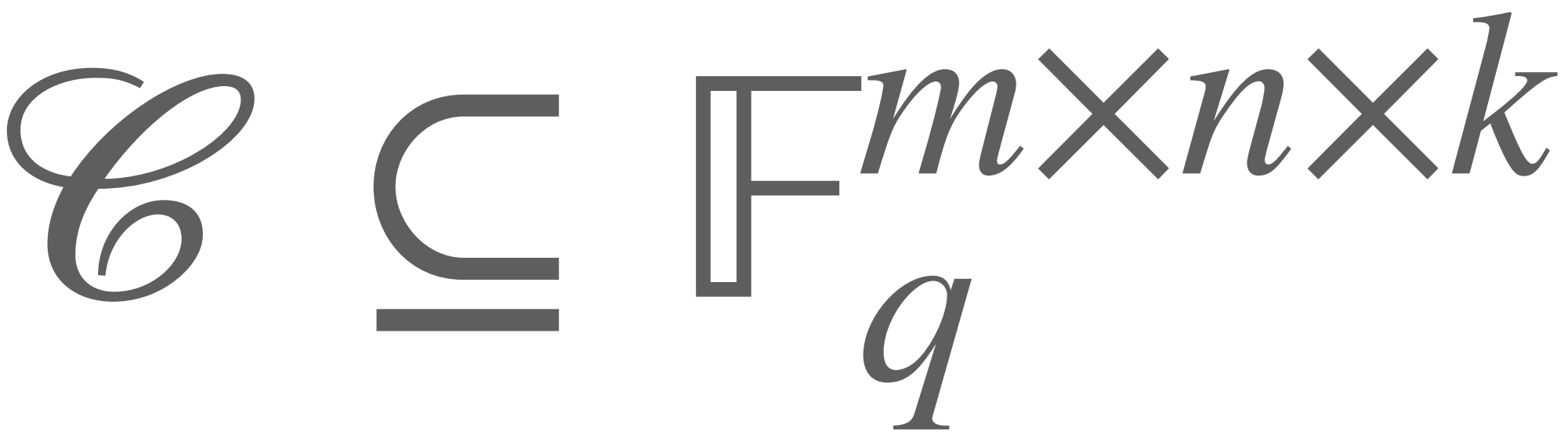

C1

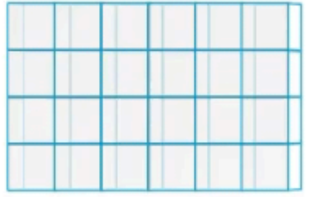
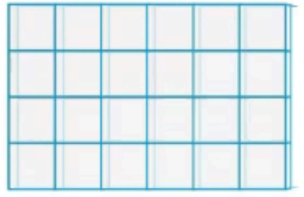
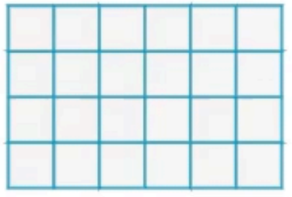
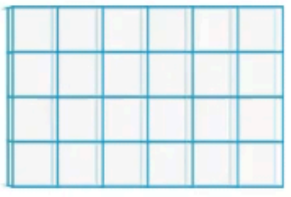
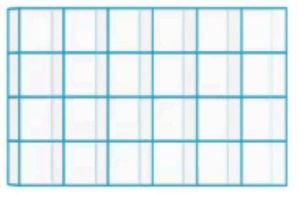

C2

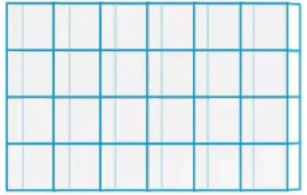
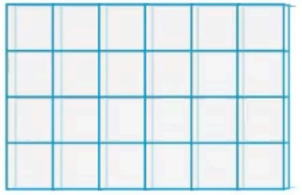
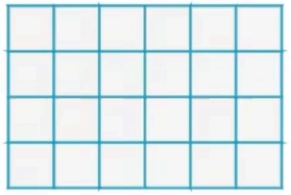
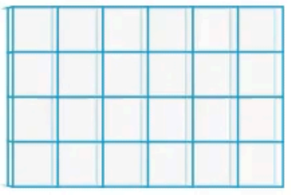
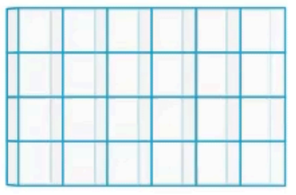

C3


C4


C5

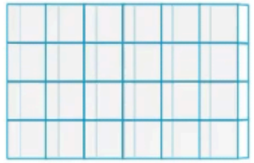
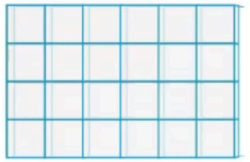
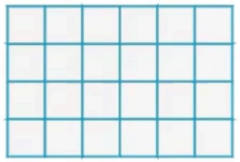
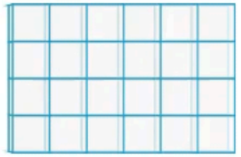
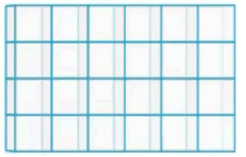


Matrix Code Equivalence

$$\mathscr{C} \subseteq \mathbb{F}_q^{m \times n \times k}$$

Matrix Code Equivalence

3-tensor

Can think of a matrix code as a 3-tensor over $\mathbb{F}_q$

Equivalence then becomes *tensor isomorphism*

$$\mathscr{C} \subseteq \mathbb{F}_q^{m \times n \times k}$$