Grundy

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Nim

( ): X f $f : X \to 2^X$ $\mathcal{A} = (X, f)$ X $\boldsymbol{\mathcal{A}}$ f $\boldsymbol{\mathcal{A}}$

: 2^X X

( ): $\mathcal{A} = (X, f)$ n $x_0, ..., x_n \in X$ $x_{i+1} \in f(x_i)$ $(i = 0, ..., n-1)$ $(x_0, ..., x_n)$
$\mathcal{A}$ $\boldsymbol{n}$ x_0

( ): $\mathcal{A} = (X, f)$ $\mathcal{A}$
- $n_0 \in \mathbb{N}$ $\mathcal{A}$ n_0

( ): $\mathcal{A} = (X, f)$

$$\mathcal{E} := \{x \in X \mid f(x) = \emptyset\}$$

$\mathcal{E}$ $\mathcal{A}$ $\mathcal{E} \neq \emptyset$

( ): $\mathcal{A} = (X, f)$ $\mathcal{E}$ $\mathcal{G}$ $\mathcal{S}$

- $\mathcal{E} \subset \mathcal{G}$
-

(Nim): n

Grundy