

새로운 문제 $2^{\mathbb{N}}$ 은 countable인가?

\mathbb{N} 의 부분 집합의 집합

각각의 무한한 이진수

Cantor's diagonal argument. (1872)

Russel's paradox

Gödel's Incompleteness Theorem.

Halting Problem.

이탈론 문제.

거짓말쟁이.

Denial of self recursion.

자연수:

(자연수) 변은 \aleph_0 이기

~~enumerable~~

~~enumer~~

enumerate

무한 infinite

recursion

recursively enumerable
= countable

non-R.E.

= uncountable

Chap. 2. Finite Automata

Def. DFA $M = (Q, \Sigma, \delta, q_0, F)$ is a 5-tuple.

1. Q is a set of states,
(finite)

2. Σ " " " input symbols
or vocabulary,

3. $\delta: Q \times \Sigma \rightarrow Q$ state transition fn. $q \xrightarrow{a} p$
eg $p \in Q, a \in \Sigma \quad \delta(q, a) = p$

4. $q_0 \in Q$ is an initial state, and

5. $F \subseteq Q$ is a set of final states.