

제 5강 3/16

* $\forall s (\phi \subseteq s) \quad \forall s (s \subseteq s) \dots$ Chap 2 TP page 5 Thm 1

$\forall s \in \mathcal{U} (\phi \subseteq s) \quad \forall s \in \mathcal{U} (s \subseteq s)$

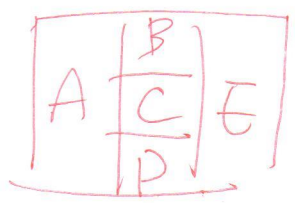
집합 \mathcal{U} ... 모든 집합은 원소로 가지는 집합 $\mathcal{U} = \mathcal{U}$
 $\mathcal{U} \in \mathcal{U}$

Indexed set notation

$$\sum_{i=1}^{100} i = \sum_{i \in \{1\}}$$

TP19 of chap 1

Logic program



map coloring prob.

$P_1 \wedge P_2 \wedge P_3$

$$(P_1 \wedge P_2) \wedge P_3 = P_1 \wedge (P_2 \wedge P_3)$$

결합법칙 $\vee, \cap, \cup, +, \times$
 $\sum \pi \oplus$

$$a_1 \oplus (a_2 \oplus a_3) = (a_1 \oplus a_2) \oplus a_3 \quad \text{결합법칙}$$

\oplus : binary \rightarrow n-ary

$$\sum_{i=1}^{100} i \quad \text{vs} \quad \sum_{i \in \{1, 2, \dots, 100\}}$$

$$\bigwedge_{i=1}^n P_i \quad \text{vs} \quad \bigwedge_{i \in \mathbb{N}_n} P_i$$

함수 $f: A \rightarrow B$

If $A = (A_1 \times A_2 \times \dots \times A_n)$ and $B = (B_1 \times B_2 \times \dots \times B_m)$

$f: A_1 \times A_2 \times \dots \times A_n \longrightarrow B_1 \times B_2 \times \dots \times B_m$
 multiple-value returning fn

Global variable Considered Harmful — 최/공/무
 structure in C
 ? in Java
 ? in C++

Countable sets

Def 4

Subset of \mathbb{N} is countable

Uncountable

$f: \mathbb{N} \rightarrow \{\pi, \# \}$

~~이진수~~ 이진수 $\leftrightarrow 2^{\mathbb{N}}$
 무한
 자연수의 부분집합

메모리의 증가량