Algorithms Correctness and Efficiency

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Algorithms Correctness and Efficiency

Predicate calculus

Predicate calculus provides a richer representation language than propositional calculus:

It provides:

- objects and proprieties
- relationships between objects(functions)
- quantification(arrays)

Syntax

Logical symbols(static meaning)

- punctuation: () , .
- connectives: ¬ (not), (and), (or), → (conditional), (universal quantifier), (existential quantifier), = (equals)
- variables:x,y,z,x1,y1,z1

Non logical symbos

- function symbols: *father, mother, sum*
- predicate symbols: *Man, Woman, Married*

Atomic Formulas

- terms
- every variable