Logic of Statements

Statements & Logical Connectives

A **statement** is a sentence that is either true or false, but not both.
EX: The moon orbits the Earth is a true statement.
EX: One plus one equals three is a false statement.

A **compound statement** is a statement that is made up of one or more simple statements using **logical connectives**.

For statements p and q, the table summarizes the logical connectives that can be used to create compound statements.

Logical Connectives		
Expression	How it is read	Type of connective
~p	"not p"	negation
p ∧ q	"p and q"	conjunction
p ∨ q	"p or q"	disjunction

Compound statements may contain multiple logical connectives. For compound statements that contain a negation (~) and another logical connective, the negation (~) is performed first.
EX: ~p ∨ q is equivalent to (~p) ∨ q.
EX: ~p ∧ ~q is equivalent to (~p) ∧ (~q).

You can express compound statements symbolically using ~, ∧, and ∨.
EX: Let p represent the statement "It is cloudy." Let q represent the statement "It is raining." Represent each compound statement below symbolically.
It is not raining. ~q
It is cloudy and it is raining. p ∧ q
It is cloudy but it is not raining. p ∧ ~q or p ∧ (~q)
It is not cloudy and it is not raining. ~p ∧ ~q or (~p) ∧ (~q)

Truth Tables

A **statement** is either true or false and has a well-defined **truth value**. Compound statements also have well-defined truth values that are determined by the truth values of the simple statements that comprise them. **Truth tables** can be used to show the truth value of a compound statement based on the truth values of its components.

EX: Negation of a statement
For a statement p, the negation of p is written ~p and means "not p." The truth value of ~p is the opposite of the truth value of p. If p is true, then ~p is false. If p is false, then ~p is true.

p	~p
T	F
F	T

EX: Conjunction of a statement
For statements p and q, the conjunction of p and q is written p ∧ q and means "p and q." The truth value of a conjunction is true when, and only when, both p and q are true. If either p or q is false, or if both p and q are false, the conjunction is false.

p	q	p ∧ q
T	T	T
T	F	F
F	T	F
F	F	F

EX: Disjunction of a statement
For statements p and q, the disjunction of p and q is written p ∨ q and means "p or q." The truth value of a disjunction is true when at least one of p or q is true. If both p and q are false, then the disjunction is false.

p	q	p ∨ q
T	T	T
T	F	T
F	T	T
F	F	F

Truth tables can also be used to determine the truth values of more complicated compound statements.

EX: Construct a truth table for the compound statement ~p ∨ (q ∧ r).

p	q	r	~p	q ∧ r	~p ∨ (q ∧ r)
T	T	T	F	T	T
T	T	F	F	F	F
T	F	T	F	F	F
T	F	F	F	F	F
F	T	T	T	T	T
F	T	F	T	F	T
F	F	T	T	F	T
F	F	F	T	F	T

Logical Equivalence & De Morgan's Laws

Two statements are logically equivalent if and only if they have identical truth values. The symbol ≡ is used to denote logical equivalence.

Steps to Determine Logical Equivalence

For compound statements P and Q:
1. Construct a truth table for P.
2. Construct a truth table for Q using the same statement variables as step 1.
3. Compare the truth values of the tables. If the truth values in each row are the same, the statements are logically equivalent. If the tables have a different truth value in any row, the statements are not logically equivalent.

De Morgan's laws are used to determine the negation of a conjunction and the negation of a disjunction.

The negation of a conjunction is logically equivalent to a disjunction in which each component is negated.
~(p ∧ q) ≡ ~p ∨ ~q
EX: Find the negation of the statement Justine is a sophomore and has blonde hair.
The negation of this statement is Justine is not a sophomore or does not have blonde hair.

The negation of a disjunction is logically equivalent to a conjunction in which each component is negated.
~(p ∨ q) ≡ ~p ∧ ~q
EX: Find the negation of the statement Luis was sick on Monday or he missed the school bus.
The negation of this statement is Luis was not sick on Monday and he did not miss the school bus.

As with other compound statements, a truth table can be used to demonstrate the logical equivalence of De Morgan's laws.

EX: Construct a truth table to show that ~(p ∨ q) ≡ ~p ∧ ~q.

p	q	~p	~q	(p ∨ q)	~(p ∨ q)	~p ∧ ~q
T	T	F	F	T	F	F
T	F	F	T	T	F	F
F	T	T	F	T	F	F
F	F	T	T	F	T	T

Conditional Statements

A **conditional** statement is an if-then statement of the form "if p, then q," where p is the **hypothesis** and q is the **conclusion**. This is symbolized by p → q or read as "p implies q."

EX: If 12 is divided by 4, then the quotient is 3.
If Nathan makes the soccer team, then he will play fullback.
If Christy does not earn at least a B on her final, then she will earn a C for the class.

A conditional statement is false when, and only when, the hypothesis p is true and the conclusion q is false. Otherwise, the conditional statement is true.

p	q	p → q
T	T	T
T	F	F
F	T	T
F	F	T

Truth tables can be used to analyze compound conditional statements.

Discrete Math Study Guide

W.D. Wallis

Discrete Math Study Guide:

The Discrete Math Workbook Sergei Kurgalin,Sergei Borzunov,2020-08-12 This practically focused study guide introduces the fundamentals of discrete mathematics through an extensive set of classroom tested problems Each chapter presents a concise introduction to the relevant theory followed by a detailed account of common challenges and methods for overcoming these The reader is then encouraged to practice solving such problems for themselves by tackling a varied selection of questions and assignments of different levels of complexity This updated second edition now covers the design and analysis of algorithms using Python and features more than 50 new problems complete with solutions Topics and features provides a substantial collection of problems and examples of varying levels of difficulty suitable for both laboratory practical training and self study offers detailed solutions to each problem applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms Boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis of algorithms including Turing machines asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite summation formulae in an appendix together with basic rules for differential and integral calculus This hands on workbook is an invaluable resource for undergraduate students of computer science informatics and electronic engineering Suitable for use in a one or two semester course on discrete mathematics the text emphasizes the skills required to develop and implement an algorithm in a specific programming language **Student Solutions Manual and Study Guide, Discrete Mathematics with Applications** Susanna S. Epp,2011-04 A solutions manual designed to accompany the fourth edition of the text Discrete mathematics with applications by Susanna S Epp It contains complete solutions to every third exercise in the text that is not fully answered in the appendix of the text itself Additional review material is also provided **Schaum's Outline of Discrete Mathematics, Fourth Edition** Seymour Lipschutz,Marc Lipson,2021-11-30 Study smarter and stay on top of your discrete mathematics course with the bestselling Schaum s Outline now with the NEW Schaum s app and website Schaum s Outline of Discrete Mathematics Fourth Edition is the go to study guide for more than 115 000 math majors and first and second year university students taking basic computer science courses With an outline format that facilitates quick and easy review Schaum s Outline of Discrete Mathematics Fourth Edition helps you understand basic concepts and get the extra practice you need to excel in these courses Coverage includes set theory relations functions and algorithms logic and propositional calculus techniques of counting advanced counting techniques recursion probability graph theory directed graphs binary trees properties of the integers languages automata machines finite state machines and Turning machines ordered sets and lattices and Boolean algebra Features NEW to this edition the new Schaum s app and website NEW to this edition 20 NEW problem solving videos online 467 solved problems and hundreds of additional practice problems Outline format to provide a concise guide to the standard college course in discrete mathematics Clear concise explanations of

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