!= (Logical operator not)
lecture02 p. 3
" (Double quote)
lecture01 p. 14
#define
lecture01 p. 15,17,18
lecture07 p. 12,13
#ifndef
lecture07 p. 12
#include
lecture01 p. 15,19
lecture02 p. 11
lecture07 p. 12
& (bit and)
lecture02 p. 3
& operator (address)
lecture01 p. 9
lecture03 p. 6,8,11
&& (Logical operator and)
lecture02 p. 3
' (Single quote)
lecture01 p. 14
* operator (dereferencing)
lecture01 p. 9
lecture03 p. 10
- (arrow) reference to structure
lecture03 p. 22
. (dot) reference to structure
lecture03 p. 18,22
.h File
lecture01 p. 15
.hpp file
lecture08 p. 10
2-3-4 Tree
lecture06 p. 26
\0
lecture01 p. 14
lecture02 p. 13,15,16
\n
lecture02 p. 13
`__FILE__`
lecture07 p. 14,15
`__LINE__`
lecture07 p. 14,15
((Curly brackets)
lecture02 p. 2
I (bit or)
lecture02 p. 3
II (Logical operator or)
lecture02 p. 3

A

Abstract class
lecture11 p. 17
`accept()`
lecture10 p. 4
ACID
lecture12 p. 20
lecture13 p. 3
Address
lecture01 p. 8,9,12
Address of variable
lecture03 p. 6
Adelson-Velsky, Georgy
lecture06 p. 23
Aggregate
lecture11 p. 12
Aggregate vs multiple inheritance
lecture11 p. 18
Algorithm
lecture01 p. 12
lecture12 p. 10
Algorithm vs heuristic
lecture13 p. 18
Alignment of structures
lecture03 p. 20,21
And (logical operator)
lecture02 p. 3
Angle brackets vs double quotes for header files
lecture02 p. 11
Annealing
lecture13 p. 22
Architecture
lecture01 p. 9

argc
lecture02 p. 6
lecture03 p. 6,16,17
lecture03 p. 16
Argument passed as reference
lecture08 p. 13
Argument passed by reference
lecture08 p. 13
argv
lecture03 p. 6
argv[]
lecture02 p. 6
lecture03 p. 16,17
Array
lecture01 p. 10,12,13
lecture03 p. 9
lecture06 p. 2-6,15,16
lecture08 p. 16
Array in C and in Java
lecture03 p. 14
Array of strings
lecture03 p. 15
Array of structures
lecture03 p. 18
Array vs pointer
lecture03 p. 9,11,12,14
Array – multidimensional
lecture03 p. 16
Array: returned by a function
lecture04 p. 14,15
Array:Pointer
lecture05 p. 8
Arrow reference to structure field
lecture03 p. 22
ASCII
lecture01 p. 8
ASCII table
lecture02 p. 2
assert
lecture02 p. 8
Assigning address to pointer
lecture03 p. 8
Assignment
lecture02 p. 3,5
Assignment of objects of derived classes
lecture11 p. 14,15
Assignment operator
lecture09 p. 18,19
ATK
lecture08 p. 2
atof()
lecture03 p. 3
atoi()
lecture03 p. 3
atol()
lecture03 p. 3
autoconf
lecture07 p. 19
automake
lecture07 p. 19
autoscan
lecture07 p. 19
Autotools
lecture07 p. 18,19
AVL tree
lecture06 p. 23-25

B

B-Tree
lecture06 p. 26
lecture07 p. 1-4,6
Bad path
lecture11 p. 23
Balanced tree
lecture06 p. 23-25
Beeper program
lecture10 p. 15
Bell Labs
lecture01 p. 6
Bell labs
lecture01 p. 6
Berkeley Software Distribution (BSD)
lecture07 p. 6
Berners-Lee, Tim
lecture10 p. 6
Binary file
lecture04 p. 4,5

Binary search
lecture06 p. 15,16,19,20
Binary tree
lecture06 p. 20-23
`bind()`
lecture10 p. 4
Bit
lecture01 p. 7
Bit operators
lecture02 p. 3
Block
lecture02 p. 2
Block of instructions
lecture01 p. 15
Boolean
lecture01 p. 10
lecture02 p. 1,2
Boost library
lecture12 p. 16
Box-Müller
lecture03 p. 5
`break`
lecture02 p. 4
BSD (Berkeley Software Distribution)
lecture07 p. 6
lecture09 p. 21
Buffered input/output
lecture12 p. 17
Built-in functions
lecture02 p. 8,11,12
Byte
lecture01 p. 7,8
Byte address
lecture12 p. 1,2

C

C and inheritance
lecture11 p. 19-21
C environment
lecture01 p. 7
C program structure
lecture01 p. 17,18
C standard library
lecture02 p. 11
C vs Java
lecture01 p. 5,12,13,17
lecture02 p. 9
lecture03 p. 14,22
lecture04 p. 10,20
lecture05 p. 7,8
lecture06 p. 1
lecture07 p. 4,24,25
lecture08 p. 2
C++
lecture08 p. 7,9
C++ constructor
lecture09 p. 3
C++ initialization
lecture09 p. 3
C++ rules
lecture12 p. 15
C++ vs Java
lecture08 p. 15,16
lecture09 p. 1,12,13
lecture11 p. 17
lecture12 p. 4
C11
lecture01 p. 6
C89
lecture01 p. 6
C99
lecture01 p. 6
Cairo
lecture08 p. 2
Calling functions
lecture04 p. 10
`calloc()`
lecture05 p. 1
Canonical class
lecture09 p. 5,6,8,9,14,18,19
Case
lecture02 p. 15
`case`
lecture02 p. 4
Case insensitive comparison
lecture02 p. 16

Casting
lecture12 p. 15
`catch`
lecture08 p. 12
Catching errors
lecture08 p. 8
CFLAGS
lecture04 p. 8
Changing case
lecture02 p. 15
`char`
lecture01 p. 10,11
Character classification
lecture02 p. 14,15
Character encoding
lecture01 p. 15
lecture02 p. 2,19,20
Character Encoding
lecture03 p. 2
Character encoding
lecture03 p. 1-3
Chinese characters
lecture02 p. 17,20
lecture03 p. 1,2
`cin`
lecture08 p. 11
CJK
lecture02 p. 19
`class`
lecture07 p. 24
lecture08 p. 15
lecture12 p. 3
Class (canonical)
lecture09 p. 5,6,8,9,14,18,19
Class naming rules
lecture09 p. 2,3
Class template
lecture12 p. 5,7-9
Classes
lecture08 p. 14,15
lecture09 p. 1
Classification of characters
lecture02 p. 14,15
Clean shutdown
lecture10 p. 16
`close()`
lecture10 p. 3
Cloud
lecture12 p. 19
Cmake
lecture07 p. 20
Code
lecture01 p. 7
Codepoint
lecture02 p. 18,19
lecture03 p. 1
Collection
lecture08 p. 15
Collections
lecture06 p. 1
Command-line parameters
lecture02 p. 6
lecture03 p. 6,16,17
Comparison of Data structures
lecture07 p. 7-9
Comparison of strings
lecture02 p. 16
Comparison operators
lecture02 p. 2,3,5
Compiler
lecture01 p. 15-17,19
Compiling a C program
lecture01 p. 16,17
Compiling on Linux
lecture01 p. 16
Condition
lecture02 p. 1,2
Condition variable
lecture13 p. 8-10
Conditional compiling
lecture07 p. 15,17,18
`configure`
lecture07 p. 18,19
`conio.h`
lecture07 p. 16
`connect()`
lecture10 p. 2-4
Constants
lecture01 p. 15,17,18

Constraints in a database
lecture12 p. 21
Constructor
lecture08 p. 15
Constructor (copy)
lecture09 p. 9-12,14
Constructor (default)
lecture09 p. 6-8
`cons_cast`
lecture12 p. 15
Container
lecture12 p. 10
Coordinates, Professor
lecture01 p. 1
Coplien, Jim
lecture09 p. 5,6,8,9,14,18,19
Copy (shallow vs deep)
lecture09 p. 14
Copy constructor
lecture09 p. 9-12,14
Copy operator
lecture09 p. 19
Core dump
lecture10 p. 13
Course expectations
lecture01 p. 2
Course notes
lecture01 p. 3
Course Organization
lecture01 p. 5
`cout`
lecture08 p. 11
Craftsmanship
lecture01 p. 5
Cryptography
lecture06 p. 18
`ctime()`
lecture03 p. 4,6,23
`ctype.h`
lecture02 p. 14
lecture02 p. 14,15
Curly brackets
lecture01 p. 15
lecture02 p. 2
Cygwin
lecture01 p. 1,2
`c_str()`
lecture12 p. 12

D

Daemon
lecture10 p. 19
lecture11 p. 3,4
`daemon()`
lecture11 p. 3
Dahl, Ole-Johan
lecture08 p. 9
Data
lecture01 p. 7
lecture06 p. 1,2
Data structure
lecture06 p. 2
Data structure functions
lecture07 p. 4,6,7
Data structures
lecture06 p. 1,2,6-19
lecture07 p. 8,9
Data structures comparison
lecture07 p. 7-9
Data types
lecture01 p. 10-12
Database
lecture06 p. 26
lecture07 p. 4,9
lecture12 p. 20,21
Database access
lecture12 p. 22-29
DBMS (database management system)
lecture12 p. 20,21
`ddd`
lecture08 p. 7
Debugging
lecture08 p. 6,7
Declaration
lecture05 p. 7
Declaration of pointer
lecture03 p. 8

Declaration of variable
lecture01 p. 8
Deep copy
lecture09 p. 14
Default constructor
lecture09 p. 6-8
Default destructor
lecture09 p. 8
Default parameters
lecture08 p. 13
Degenarated binary tree
lecture06 p. 23
`delete`
lecture08 p. 12
Deleting a file
lecture04 p. 5
`deque`
lecture12 p. 10
Dereferencing
lecture03 p. 10,22
Derived class
lecture11 p. 11
Destructor
lecture08 p. 15
Destructor (default)
lecture09 p. 8
Dijkstra's algorithm
lecture13 p. 11-16
Dijkstra, Edsger
lecture13 p. 11
Direct access
lecture04 p. 5
Directory operations
lecture04 p. 5
`dirent.h`
lecture04 p. 5
Distributed files
lecture12 p. 19
Distribution
lecture03 p. 5
`do ... while`
lecture02 p. 5
Dot reference to structure field
lecture03 p. 18,22
`double`
lecture01 p. 11,12
Double quote
lecture01 p. 14
Double quotes vs angle brackets for header files
lecture02 p. 11
Doubly linked list
lecture06 p. 14
Dumping a binary file
lecture04 p. 6
Dynamic analysis:gdb
lecture08 p. 7
Dynamic analysis:Valgrind
lecture08 p. 7
Dynamic data structures
lecture07 p. 9
Dynamic memory
lecture04 p. 19,20
lecture05 p. 1,7,8
lecture06 p. 3-5
Dynamic memory example
lecture05 p. 3

E

Eclipse
lecture08 p. 7
EDP
lecture06 p. 1
Electric-Fence
lecture08 p. 7
Electronic Data Processing
lecture06 p. 1
Eliot (T.S.)
lecture06 p. 2
ELLEMTEL
lecture12 p. 15
`else`
lecture02 p. 1,4
`else if`
lecture02 p. 4
Embedded database
lecture12 p. 23,24

Encapsulation
lecture08 p. 15
lecture09 p. 2
Encoding
lecture01 p. 8
lecture02 p. 18
End-of-string marker
lecture01 p. 14
EOF
lecture02 p. 13
Epoch
lecture03 p. 4
errno
lecture03 p. 4
lecture07 p. 24
errno.h
lecture03 p. 3,4
lecture07 p. 24
Error checking
lecture02 p. 6,7
lecture03 p. 3
Error management
lecture02 p. 8
Exam
lecture01 p. 3
Example of pointer usage
lecture03 p. 10,11
Example: day of the week when you were born
lecture03 p. 24,25
Example: linked list
lecture06 p. 10-12
Exams
lecture01 p. 2,3
Exception
lecture02 p. 8
lecture11 p. 22-24
Exception (uncaught)
lecture11 p. 24
Exceptions
lecture08 p. 12
exec()
lecture11 p. 2
lecture11 p. 2-4
execl()
lecture11 p. 2
Executable
lecture01 p. 15
execv()
lecture11 p. 2
Expectations
lecture01 p. 2
Exponent
lecture01 p. 11,12
Exponential distribution
lecture03 p. 5
extern
lecture04 p. 10
lecture04 p. 10
lecture07 p. 23
lecture08 p. 2

F

Factorial
lecture05 p. 18
fclose()
lecture04 p. 3
fepf()
lecture04 p. 4
ferror()
lecture04 p. 4
fflush()
lecture12 p. 17
fgetc()
lecture02 p. 13
lecture04 p. 4
fgets()
lecture01 p. 16
lecture02 p. 13
lecture04 p. 17
fgets():Return value
lecture03 p. 3
FIFO
lecture06 p. 14
lecture07 p. 8
FILE
lecture04 p. 3
FILE *
lecture04 p. 2,3

Files
lecture04 p. 2,3
lecture12 p. 16-18
First In First Out
lecture06 p. 14
float
lecture01 p. 11,12
flock()
lecture04 p. 5
Flow control
lecture02 p. 1,4,5
fopen()
lecture04 p. 3
lecture09 p. 20,21
for
lecture02 p. 5
fork()
lecture10 p. 19,20
lecture11 p. 2
Formatted input and output
lecture02 p. 14
fprint()
lecture04 p. 3
fprintf()
lecture02 p. 14
fputc()
lecture02 p. 13
lecture04 p. 4
fputs()
lecture02 p. 13
lecture04 p. 3
fread()
lecture04 p. 4
Free Software Foundation (FSF)
lecture07 p. 18
free()
lecture05 p. 3
lecture05 p. 1,4-7
Freeing a binary tree
lecture06 p. 22
friend
lecture09 p. 17
fseek()
lecture04 p. 5
lecture12 p. 17
FSF
lecture07 p. 18
ftok()
lecture11 p. 5,6
Function call
lecture04 p. 11-15
Function declaration
lecture02 p. 10,11
Function identification
lecture02 p. 9
Function nesting
lecture01 p. 15
Function object
lecture12 p. 11-14
Function pointer
lecture07 p. 4,5
Function prototype
lecture01 p. 15
lecture02 p. 10,11
Function template
lecture12 p. 2-5,9
Function vs method
lecture09 p. 16
Function: Pointers as argument
lecture04 p. 16,17
lecture05 p. 9
Function: returning an array
lecture04 p. 14,15
Functional programming
lecture12 p. 13
Functions
lecture04 p. 10,11
Functions, nesting
lecture02 p. 9
Functor
lecture12 p. 11-14
fwrite()
lecture04 p. 4

G

g++
lecture08 p. 12

Garbage collector
  lecture05 p. 3
  lecture08 p. 16
Gateway
  lecture09 p. 24
`gcc`
  lecture01 p. 16,17
  lecture01 p. 7
`gcd()`
  lecture04 p. 11,12
Gelatt, Daniel
  lecture13 p. 22
Generic class
  lecture12 p. 5,7-9
Generic function
  lecture12 p. 1-5,9
Generic tree
  lecture12 p. 6,7
Genetic algorithm
  lecture13 p. 20
`getaddrinfo()`
  lecture10 p. 3,8
`getchar()`
  lecture02 p. 13
`getenv()`
  lecture11 p. 3
`getopt()`
  lecture03 p. 17
`getpid()`
  lecture10 p. 10
`getppid()`
  lecture10 p. 10
`gets()`
  lecture02 p. 13
Git
  lecture08 p. 6
Glib
  lecture07 p. 7
  lecture08 p. 2
Global variable
  lecture03 p. 4
  lecture07 p. 22,24,25
Global variables
  lecture04 p. 17,18
`gmtime()`
  lecture03 p. 24
Gnome
  lecture07 p. 7
Gnome Tool Kit (GTK)
  lecture08 p. 2-4
GNU
  lecture07 p. 7
GNU autotools
  lecture07 p. 18,19
GNU Tool Kit (GTK)
  lecture11 p. 19,20
Good path
  lecture11 p. 23
Gosling, James
  lecture11 p. 17
Grades
  lecture01 p. 3
Greedy algorithm
  lecture13 p. 19
`grep`
  lecture10 p. 18
GTK (Gnome Tool Kit)
  lecture08 p. 2-4
GTK (GNU Tool Kit)
  lecture11 p. 19,20
`gtk.h`
  lecture08 p. 3
`GtkWidget`
  lecture08 p. 3
`GTK_WINDOW`
  lecture08 p. 4

H

Hamilton, William Rowan
  lecture13 p. 17
Hanoi (towers of)
  lecture05 p. 18,19
Hash function
  lecture06 p. 17,18
Hash table
  lecture06 p. 17-19
  lecture07 p. 6

Hashmap
lecture12 p. 10
`head`
lecture04 p. 6
Head of list
lecture06 p. 7
Header file
lecture01 p. 15
lecture02 p. 11
lecture07 p. 10,11,24
Heap
lecture01 p. 7
lecture04 p. 20
lecture05 p. 1
Help on functions
lecture02 p. 8
Heuristic vs algorithm
lecture13 p. 18
Hiding
lecture11 p. 15,16
History of C
lecture01 p. 6
Hoare, Antony
lecture05 p. 9
Honesty
lecture01 p. 4
HTTP
lecture10 p. 6-9
`httpd`
lecture10 p. 7

I

`if`
lecture02 p. 1,4
Implementation
lecture11 p. 12
In-memory database
lecture07 p. 9
Information
lecture06 p. 1,2
Information Technology
lecture06 p. 1
Inheritance
lecture11 p. 11-17
Inheritance (multiple)
lecture11 p. 17,18
Inheritance (multiple) vs aggregate
lecture11 p. 18
Inheritance and C
lecture11 p. 19-21
Initialization of pointer
lecture03 p. 9-11
Initialization of structure
lecture03 p. 19
Initializing members
lecture11 p. 10,11
Input/Output
lecture02 p. 12-14
Insertion in a binary tree
lecture06 p. 21,22
`int`
lecture01 p. 10,11
`integer operations`
lecture01 p. 11
Inter Process Communication (IPC)
lecture11 p. 4-8
Interface
lecture11 p. 12
`iostream`
lecture08 p. 11
IPC
lecture11 p. 4,5
`isalnum()`
lecture02 p. 14
`isalpha()`
lecture02 p. 14
`isdigit()`
lecture02 p. 14
`islower()`
lecture02 p. 14
ISO
lecture02 p. 19,20
lecture03 p. 1
`isprint()`
lecture02 p. 14
`ispunct()`
lecture02 p. 14

isspace()
lecture02 p. 14
isupper()
lecture02 p. 14
IT
lecture06 p. 1
Iterator
lecture12 p. 10

J

Java vs C
lecture01 p. 5,12,13,17
lecture02 p. 9
lecture03 p. 14,22
lecture04 p. 10
java vs C
lecture04 p. 20
Java vs C
lecture05 p. 7,8
lecture06 p. 1
lecture07 p. 4,24,25
lecture08 p. 2
Java vs C++
lecture08 p. 15,16
lecture09 p. 1,12,13
lecture11 p. 17
lecture12 p. 4

K

K&R
lecture01 p. 6
Keringhan (Brian)
lecture01 p. 6
Key/Value store
lecture12 p. 1,18,19
key_t
lecture11 p. 6
lecture11 p. 5,7
kill()
lecture10 p. 12
lecture10 p. 13
Kirkpatrick, Scott
lecture13 p. 22

L

Labs
lecture01 p. 2,3
Landis, Evgenii
lecture06 p. 23
Last In First Out
lecture06 p. 13,14
Latency
lecture12 p. 19
ld
lecture01 p. 19,20
libpthread
lecture13 p. 6
Library file
lecture04 p. 9
LIFO
lecture06 p. 13,14
lecture07 p. 8
Linked list
lecture06 p. 7-16,19
Linker
lecture01 p. 15-17,19,20
lecture04 p. 9-12
Linux
lecture01 p. 1,2
List
lecture08 p. 15
list
lecture12 p. 10
listen()
lecture10 p. 4
Listener
lecture09 p. 25
Local minimum
lecture13 p. 22
localtime()
lecture03 p. 24
Locking a file
lecture04 p. 5

Logical operators	
lecture02	p. 3
`long`	
lecture01	p. 10
lecture01	p. 11
`longjmp()`	
lecture10	p. 15
Loop	
lecture02	p. 4,5

M

MAC address	
lecture09	p. 27
Macro	
lecture07	p. 13,14
`main()`	
lecture01	p. 16
`make`	
lecture01	p. 7
lecture04	p. 7-9
lecture04	p. 6-9
lecture07	p. 18
Makefile	
lecture04	p. 7-9
`malloc()`	
lecture05	p. 1-4
lecture06	p. 5
lecture07	p. 25
`man`	
lecture02	p. 8
lecture09	p. 20
lecture09	p. 20,21
Map	
lecture12	p. 10
Marker (end-of-string)	
lecture01	p. 14
Mathematical functions	
lecture01	p. 18-20
Mathematical functions:Compiler	
lecture01	p. 19
Mathematical Induction	
lecture05	p. 14
Mathematical induction	
lecture05	p. 12,13
Matrix example	
lecture07	p. 11,12
Maurolico, Francisco	
lecture05	p. 12,13
`MD5`	
lecture06	p. 18
`memory`	
lecture01	p. 8
lecture01	p. 8
Memory address	
lecture01	p. 9
Memory leak	
lecture05	p. 6
Mercurial	
lecture08	p. 6
Message nesting	
lecture09	p. 27
Message queue	
lecture11	p. 4-6
lecture13	p. 4
Metallurgy	
lecture13	p. 22
Method	
lecture07	p. 5
Method definition	
lecture08	p. 14
Method hiding	
lecture11	p. 15,16
Method overloading	
lecture11	p. 15-17
Method overriding	
lecture11	p. 15,16
Method vs function	
lecture09	p. 16
Methods	
lecture07	p. 10
lecture08	p. 14
Methods in structures	
lecture08	p. 15
MidTerm Exam	
lecture08	p. 1
Mixing C and C++	
lecture08	p. 17

mktime()
lecture03 p. 24
mmap()
lecture12 p. 18
Modelling
lecture12 p. 21
Monte-Carlo method
lecture13 p. 20-22
msgctl()
lecture11 p. 6
msgget()
lecture11 p. 5
msgrcv()
lecture11 p. 6
msgsnd()
lecture11 p. 5
Multi-threading
lecture04 p. 18,19
Multidimensional array
lecture03 p. 16
Multiple inclusions
lecture07 p. 12
Multiple inheritance
lecture11 p. 17,18
Multiple inheritance vs aggregate
lecture11 p. 18
Multiple processors
lecture13 p. 3,4
Multitasking
lecture13 p. 3,4,6
Mutex
lecture13 p. 8,9

N

Name of variable
lecture01 p. 9
namespace
lecture08 p. 11
lecture11 p. 8-10
Naming a structure
lecture03 p. 19
Naming of classes, members and methods
lecture09 p. 2,3
ndbm.h
lecture12 p. 18,19
lecture12 p. 1
Nearest neighbor
lecture13 p. 19
Nested structures
lecture11 p. 19,20
Nesting functions
lecture02 p. 9
Network programming
lecture09 p. 21-28
lecture10 p. 1-6
Networks
lecture09 p. 27
new
lecture07 p. 25
lecture08 p. 12
nm
lecture07 p. 23
Node
lecture06 p. 6,7
Non binary tree
lecture06 p. 26
lecture07 p. 1-4
Normal distribution
lecture03 p. 5
NoSQL
lecture13 p. 1-3
Not (logical operator)
lecture02 p. 3
NULL
lecture02 p. 13,16
lecture03 p. 3,9
Nygaard, Kirsten
lecture08 p. 9
Nygaard, Kristen
lecture08 p. 9

O

Object
lecture08 p. 16
Object creation/destruction
lecture09 p. 3-5

Object modelling
  lecture12 p. 15
Object Oriented Database
  lecture13 p. 1
Object Oriented Programming
  lecture08 p. 2
Object reference
  lecture08 p. 16
Object-Oriented Programming
  lecture07 p. 5
`od`
  lecture04 p. 6
Operating system
  lecture09 p. 20
Operations research
  lecture13 p. 10-24
`operator`
  lecture08 p. 11
Operator (assignment)
  lecture09 p. 18,19
Operator (copy)
  lecture09 p. 19
Operator as function
  lecture09 p. 17,18
Operator as method
  lecture09 p. 16-18
Operator overloading
  lecture09 p. 15,16
`operator()`
  lecture12 p. 11,13
Or (logical operator)
  lecture02 p. 3
Order
  lecture06 p. 6
  lecture07 p. 9
Orderly termination
  lecture10 p. 16
`ostream`
  lecture09 p. 16,17
Output overloading
  lecture09 p. 16,17
Over-engineering
  lecture07 p. 9
Overflow
  lecture02 p. 15,16
Overloading
  lecture02 p. 9
  lecture08 p. 13
  lecture11 p. 15,16
  lecture12 p. 2
Overloading output operator
  lecture09 p. 16,17
Overriding
  lecture11 p. 15,16
Overriding (template)
  lecture12 p. 9

P

Pango
  lecture08 p. 2
Parent class
  lecture11 p. 11
Parent process
  lecture10 p. 10
Pascal, Blaise
  lecture05 p. 12
PATH
  lecture11 p. 3
`pclose()`
  lecture10 p. 17,18
`perror()`
  lecture03 p. 4
Persistence
  lecture07 p. 10
  lecture12 p. 16-19
  lecture13 p. 2
`pid_t`
  lecture10 p. 10
Pipe
  lecture02 p. 13
Pivot
  lecture05 p. 10,11
Pointer
  lecture01 p. 9
  lecture03 p. 6-11,21,22
  lecture04 p. 15
  lecture05 p. 8

Pointer arithmetic
lecture03 p. 12-14
Pointer on a function
lecture07 p. 4,5
Pointer on structure
lecture03 p. 21,22
Pointer to a file
lecture04 p. 3
Pointer vs array
lecture03 p. 9,11,12,14
Pointers
lecture04 p. 14
Pointers as arguments to a function
lecture04 p. 16,17
lecture05 p. 9
Pointers as parameters
lecture06 p. 8,9
`popen()`
lecture10 p. 17,18
Port
lecture09 p. 25
lecture10 p. 4
Portability
lecture07 p. 15-18
Posix threads
lecture11 p. 8
`pptx`
lecture04 p. 6
Preprocessor
lecture01 p. 15-19
lecture07 p. 12-15,17,18
lecture12 p. 3
`printf()`
lecture02 p. 12,14
Priorities
lecture06 p. 14
`private`
lecture11 p. 13
lecture11 p. 13,15
Process
lecture09 p. 20
lecture10 p. 9,10
lecture13 p. 4,5
Process id
lecture10 p. 10
Professor Coordinates
lecture01 p. 1
Project
lecture07 p. 10
Propagation of exception
lecture11 p. 23,24
`protected`
lecture11 p. 13-15
Protocol
lecture09 p. 25
lecture10 p. 7
Prototype (function)
lecture01 p. 15
lecture02 p. 10,11
`ps`
lecture10 p. 11,17,18
`pthread.h`
lecture13 p. 6
`pthread_create()`
lecture13 p. 6
`pthread_exit()`
lecture13 p. 7
`pthread_join()`
lecture13 p. 7,8
`public`
lecture08 p. 15
lecture11 p. 13,15
`putchar()`
lecture02 p. 13
`puts()`
lecture02 p. 13

Q

Quality
lecture01 p. 5
Queue
lecture12 p. 10
lecture13 p. 5
Quick-sort
lecture05 p. 9-11,15-17

R

Race condition
lecture13 p. 6
Radix
lecture01 p. 11,12
`random()`
lecture03 p. 5
RDBMS (relational database management system)
lecture12 p. 20,21
`read()`
lecture10 p. 3,5
Reading ZIP or XML
lecture04 p. 6
`realloc()`
lecture05 p. 1
lecture06 p. 5
Recursion
lecture05 p. 13-19
lecture06 p. 11,12
Recursion vs loops
lecture05 p. 17,18
`recv()`
lecture10 p. 3-5
Reentrant
lecture13 p. 6
Reference
lecture03 p. 10
Reference to structure filed
lecture03 p. 18
Relational database
lecture12 p. 20,21
Return value
lecture02 p. 6,7,12
Return value from main()
lecture01 p. 16
Ritchie (Dennis)
lecture01 p. 6
Ritchie, Dennis
lecture01 p. 6
Robustness
lecture01 p. 5
Root
lecture06 p. 20
Rounding error
lecture01 p. 12
Router
lecture09 p. 24

S

`scanf()`
lecture01 p. 16
lecture02 p. 6,7,14
lecture04 p. 17
SCCS
lecture08 p. 6
Search
lecture06 p. 15,16
lecture07 p. 9
`search.h`
lecture07 p. 6
lecture12 p. 6
Searching
lecture12 p. 10
Self-managing list
lecture06 p. 14
Semaphore
lecture11 p. 4,5,7,8
`semctl()`
lecture11 p. 7,8
`semget()`
lecture11 p. 7
Semi-colon
lecture01 p. 15
`semop()`
lecture11 p. 7
`send()`
lecture10 p. 5
lecture10 p. 3,4
Serialization
lecture12 p. 16
Serve
lecture10 p. 4
Server
lecture10 p. 4

- *lecture13* p. 5

Set
- *lecture12* p. 10

setjmp()
- *lecture10* p. 15

setlocale
- *lecture02* p. 18

setlocale()
- *lecture03* p. 6

set_terminate()
- *lecture11* p. 24

SHA1
- *lecture06* p. 18

Shallow copy
- *lecture09* p. 14

Shared library
- *lecture04* p. 9,10

Shared memory
- *lecture11* p. 4-7
- *lecture13* p. 4

shmat()
- *lecture11* p. 6

shmctl()
- *lecture11* p. 6

shmget()
- *lecture11* p. 6

short
- *lecture01* p. 10,11

Shortest route
- *lecture13* p. 11-16

Side-effects
- *lecture07* p. 14

sigaction()
- *lecture10* p. 14,15

SIGCHLD
- *lecture10* p. 20

SIGINT
- *lecture10* p. 16

SIGKILL
- *lecture10* p. 14

Signal
- *lecture13* p. 4

Signal handler
- *lecture10* p. 14

signal()
- *lecture10* p. 14
- *lecture10* p. 14,15

signal.h
- *lecture10* p. 12,14

Signals
- *lecture10* p. 12,13,16

signed
- *lecture01* p. 11

SIGSTOP
- *lecture10* p. 14

sig_t
- *lecture10* p. 14

Simula
- *lecture08* p. 9

Simulated annealing
- *lecture13* p. 22-24

Single quote
- *lecture01* p. 14

sizeof()
- *lecture03* p. 9,15

socket
- *lecture09* p. 28

Socket
- *lecture10* p. 1-3

socket()
- *lecture10* p. 2

Sorting
- *lecture05* p. 9-11,15-17
- *lecture06* p. 4
- *lecture12* p. 10

Source control
- *lecture08* p. 5,6

Specialization
- *lecture11* p. 12

Specialization (template)
- *lecture12* p. 9

Splitting code
- *lecture07* p. 20,21

SQL
- *lecture12* p. 21,22

SQLite
- *lecture12* p. 24-29

sscanf()
- *lecture01* p. 16

Stack
lecture01 p. 7
lecture04 p. 12-15
lecture12 p. 10
Stack trace
lecture11 p. 23
Stallman, Richard
lecture07 p. 18
Standard C++ library
lecture08 p. 12
Standard Template Library (STL)
lecture12 p. 9-14
`static`
lecture04 p. 10,18,19
lecture04 p. 19
lecture07 p. 23
lecture07 p. 22,23
lecture08 p. 2
Static analysis:oclint
lecture08 p. 6
Static function
lecture07 p. 23
Static variables
lecture04 p. 18,19
`static_cast`
lecture12 p. 15
`std`
lecture08 p. 11
`stderr`
lecture02 p. 12
lecture02 p. 13
lecture03 p. 4
`stdin`
lecture02 p. 13
lecture02 p. 12,13
lecture04 p. 2,3
`stdio.h`
lecture04 p. 2
`stdlib.h`
lecture03 p. 3
lecture05 p. 1
lecture10 p. 11
`stdout`
lecture02 p. 13,14
lecture02 p. 12,13
lecture04 p. 2,3
Stepanov, Alexander
lecture12 p. 9
STL (Standard Template Library)
lecture12 p. 9-14
Strategy
lecture06 p. 13,14
`strcasecmp()`
lecture02 p. 16
`strcat()`
lecture02 p. 15,16
`strchr()`
lecture02 p. 16,17
`strcmp()`
lecture02 p. 16
`strcpy()`
lecture02 p. 15,16
`strdup()`
lecture05 p. 1
lecture06 p. 3
Stream
lecture02 p. 12,13
Stream redirection
lecture04 p. 2
`strerror()`
lecture03 p. 4
String
lecture01 p. 10,14
`string`
lecture08 p. 11
String array
lecture03 p. 15
String comparison
lecture02 p. 16
String conversion to number
lecture03 p. 3
String declaration
lecture03 p. 13
String search
lecture02 p. 16,17
`string.h`
lecture02 p. 15-17
lecture05 p. 1
Strings
lecture02 p. 15-17

lecture03 p. 3
strlen()
lecture02 p. 15
strncasecmp()
lecture02 p. 16
strncat()
lecture02 p. 16
strncmp()
lecture02 p. 16
strncpy()
lecture02 p. 16
Strong typing
lecture12 p. 2
Stroustrup, Bjarne
lecture08 p. 7,9-11
lecture09 p. 12
strrchr()
lecture02 p. 17
strsep()
lecture02 p. 17
lecture12 p. 12
strstr()
lecture02 p. 17
strtod()
lecture03 p. 3
strtok()
lecture02 p. 17
strtok_r()
lecture12 p. 12
strtol()
lecture03 p. 3
Struct
lecture03 p. 23
struct
lecture03 p. 18,20,23,25,26
lecture03 p. 18-22
lecture04 p. 1
lecture06 p. 2
lecture07 p. 11
struct (C++)
lecture08 p. 14
struct addrinfo
lecture10 p. 2,3
struct tm
lecture03 p. 23,24
Structure alignment
lecture03 p. 20,21
Structure and pointer
lecture03 p. 21,22
Structure initialization
lecture03 p. 19
Structure naming
lecture03 p. 19
Structures
lecture03 p. 18-23
Subprocess
lecture10 p. 19-21
lecture11 p. 1,2
Subversion
lecture08 p. 6
super()
lecture11 p. 11
switch
lecture02 p. 4
Synchronization
lecture13 p. 6,8-10
System call
lecture09 p. 20
System calls
lecture09 p. 19,20
System V
lecture09 p. 21
system()
lecture10 p. 11,17

T

Table in a database
lecture12 p. 21
Tail pointer
lecture06 p. 13,14
TCP
lecture10 p. 7
TCP/IP
lecture09 p. 25
TCPAcceptor
lecture10 p. 1,5
TCPConnector
lecture10 p. 1,5

TCPStream
lecture10 p. 1,5

tdelete()
lecture12 p. 6

template
lecture12 p. 3

Template (Class)
lecture12 p. 7,8

Template (class)
lecture12 p. 5,8,9

Template (function)
lecture12 p. 2-5,9

Template specialization
lecture12 p. 9

Templates
lecture12 p. 4

tfind()
lecture12 p. 6

this
lecture09 p. 2

Thomson (Ken)
lecture01 p. 6

Thomson, Ken
lecture01 p. 6

Thread
lecture13 p. 4-10

Threads
lecture07 p. 25
lecture10 p. 6
lecture11 p. 8
lecture13 p. 3

throw
lecture08 p. 12
lecture11 p. 23

Time functions
lecture03 p. 4,23,24

time()
lecture03 p. 4,23

time.h
lecture03 p. 23
lecture03 p. 4,23,24

timegm()
lecture03 p. 24

time_t
lecture03 p. 23
lecture03 p. 4

Tokenizing
lecture02 p. 17

tolower()
lecture02 p. 15

Tools
lecture07 p. 10

toupper()
lecture02 p. 15

Towers of Hanoi
lecture05 p. 18,19

traceroute
lecture10 p. 4

Traveling salesman problem
lecture13 p. 17-24

Tree
lecture06 p. 19,26
lecture07 p. 1-4,6,8
lecture12 p. 6,7

try
lecture08 p. 12

tsearch()
lecture12 p. 6

twalk()
lecture12 p. 6

typedef
lecture03 p. 19,20
lecture07 p. 11

typename
lecture12 p. 3

U

Uncaught exception
lecture11 p. 24

Unexpected exception
lecture11 p. 24

Unicode
lecture02 p. 18,19
lecture03 p. 1-3

union
lecture03 p. 25,26
lecture04 p. 1
lecture04 p. 1

unistd.h
lecture07 p. 16
UNIX
lecture01 p. 6
Unix
lecture01 p. 6
Unix pipe
lecture02 p. 13
unlink()
lecture04 p. 5
unsigned
lecture01 p. 11
UTF-16
lecture03 p. 2
UTF-32
lecture03 p. 2
UTF-8
lecture02 p. 18
lecture03 p. 3

V

Variable declaration
lecture01 p. 8
Variable name
lecture01 p. 9
Variable number of parameters
lecture02 p. 9
Vecchi, Mario
lecture13 p. 22
vector
lecture08 p. 15,16
lecture12 p. 10,12
virtual
lecture11 p. 17
lecture11 p. 17
Virtual machine
lecture07 p. 16
Virtual method
lecture11 p. 17
Visual C++
lecture08 p. 7
Visual Studio
lecture01 p. 7
void
lecture04 p. 16
void*
lecture05 p. 2
Von Neumann (John)
lecture01 p. 7
Von Neumann, John
lecture04 p. 12

W

wait()
lecture10 p. 21
lecture11 p. 1
waitpid()
lecture11 p. 1
Walking a binary tree
lecture06 p. 22
Wall gcc flag
lecture08 p. 6
wchar
lecture02 p. 18
while
lecture02 p. 4,5
Wide char
lecture02 p. 18
Wikipedia reference for operators
lecture09 p. 15
wine
lecture07 p. 16
write()
lecture10 p. 3,5

X

Xcode
lecture01 p. 7
lecture08 p. 7
XML
lecture04 p. 6

Z

`ZIP`

lecture04 p. 6

Zombie process

lecture11 p. 1