!= (Logical operator not)
lecture01 p. 23
" (Double quote)
lecture01 p. 15
#define
lecture01 p. 16,18
#include
lecture01 p. 16,20
lecture02 p. 7
& (bit and)
lecture01 p. 23
& operator (address)
lecture01 p. 10
lecture03 p. 4,6,8
&& (Logical operator and)
lecture01 p. 23
' (Single quote)
lecture01 p. 15
* operator (dereferencing)
lecture01 p. 10
lecture03 p. 7
- (arrow) reference to structure
lecture03 p. 19,20
. (dot) reference to structure
lecture03 p. 16,20
.h File
lecture01 p. 16
2-3-4 Tree
lecture06 p. 20
\0
lecture01 p. 14,15
lecture02 p. 10-12
\n
lecture02 p. 10
((Curly brackets)
lecture01 p. 22
I (bit or)
lecture01 p. 23
II (Logical operator or)
lecture01 p. 23

A

Address
lecture01 p. 8-10,12,13
Address of variable
lecture03 p. 4
Adelson-Velsky, Georgy
lecture06 p. 17
Algorithm
lecture01 p. 12
Alignment of structures
lecture03 p. 18
And (logical operator)
lecture01 p. 23
Angle brackets vs double quotes for header files
lecture02 p. 7
Architecture
lecture01 p. 10
argc
lecture02 p. 2
lecture03 p. 14,15
lecture03 p. 13
argv[]
lecture02 p. 2
lecture03 p. 13-15
Array
lecture01 p. 10,12-14
lecture03 p. 6
lecture05 p. 17-21
lecture06 p. 1,9,10
Array in C and in Java
lecture03 p. 12
Array of strings
lecture03 p. 12,13
Array of structures
lecture03 p. 16
Array vs pointer
lecture03 p. 6,8,9,12
Array – multidimensional
lecture03 p. 13
Array: returned by a function
lecture04 p. 11-13
Array:Pointer
lecture05 p. 2
Arrow reference to structure field

lecture03 p. 19,20
ASCII
lecture01 p. 9
ASCII table
lecture01 p. 22
`assert`
lecture02 p. 4
Assigning address to pointer
lecture03 p. 6
Assignment
lecture01 p. 22,23
lecture02 p. 2
`atof()`
lecture03 p. 1
`atoi()`
lecture03 p. 1
`atol()`
lecture03 p. 1
AVL tree
lecture06 p. 17-19

B

B-Tree
lecture06 p. 20-23
Balanced tree
lecture06 p. 17-19
Bell Labs
lecture01 p. 6
Bell labs
lecture01 p. 7
Binary file
lecture04 p. 2
Binary search
lecture06 p. 9,10,13,14
Binary tree
lecture06 p. 14-17
Bit
lecture01 p. 8
Bit operators
lecture01 p. 23
Block
lecture01 p. 22
Block of instructions
lecture01 p. 15
Boolean
lecture01 p. 10,11,21
Box-Müller
lecture03 p. 3
`break`
lecture01 p. 24
Built-in functions
lecture02 p. 5,8
Byte
lecture01 p. 8

C

C environment
lecture01 p. 7
C program structure
lecture01 p. 18
C standard library
lecture02 p. 8
C vs Java
lecture01 p. 6,12-14,17,18
lecture02 p. 5
lecture03 p. 12,20
lecture04 p. 7,17
lecture05 p. 1,2,16
lecture06 p. 23
C11
lecture01 p. 7
C89
lecture01 p. 7
C99
lecture01 p. 7
Calling functions
lecture04 p. 8
`calloc()`
lecture04 p. 18
`case`
lecture01 p. 24
Case
lecture02 p. 11
Case insensitive comparison
lecture02 p. 13
CFLAGS

lecture04 p. 5
Changing case
lecture02 p. 11
`char`
lecture01 p. 10,11
Character classification
lecture02 p. 10,11
Character encoding
lecture01 p. 15,22
Character Encoding
lecture02 p. 17
Character encoding
lecture02 p. 15-18
Chinese characters
lecture02 p. 14,16,17
CJK
lecture02 p. 15
Classification of characters
lecture02 p. 10,11
Code
lecture01 p. 8
`codepoint`
lecture02 p. 15
lecture02 p. 15
Collections
lecture05 p. 16
Command-line parameters
lecture02 p. 2
lecture03 p. 13-15
Comparison of strings
lecture02 p. 12,13
Comparison operators
lecture01 p. 22,23
lecture02 p. 2
Compiler
lecture01 p. 16,17,19,20
Compiling a C program
lecture01 p. 17
Compiling on Linux
lecture01 p. 17
Condition
lecture01 p. 21
Constants
lecture01 p. 16,18
Course expectations
lecture01 p. 2
Course notes
lecture01 p. 3
Course Organization
lecture01 p. 6
Course schedule
lecture01 p. 1
Craftsmanship
lecture01 p. 5
Cryptography
lecture06 p. 12
`ctime()`
lecture03 p. 2,3,21
`ctype.h`
lecture02 p. 10
lecture02 p. 11
Curly brackets
lecture01 p. 15,22
Cygwin
lecture01 p. 2

D

Data
lecture01 p. 8
lecture05 p. 16,17
Data structure
lecture05 p. 17
Data structure functions
lecture06 p. 23
Data structures
lecture05 p. 16,17,21,22
lecture06 p. 1-13
Data types
lecture01 p. 10-12
Database
lecture06 p. 20,23
Declaration
lecture05 p. 1
Declaration of pointer
lecture03 p. 5,6
Declaration of variable
lecture01 p. 9
Degenarated binary tree

lecture06	p. 17
Deleting a file	
lecture04	p. 2
Dereferencing	
lecture03	p. 7,8,19,20
Direct access	
lecture04	p. 2
Directory operations	
lecture04	p. 3
`dirent.h`	
lecture04	p. 3
Distribution	
lecture03	p. 3
`do ... while`	
lecture02	p. 1
Dot reference to structure field	
lecture03	p. 16,20
`double`	
lecture01	p. 12
Double quote	
lecture01	p. 15
Double quotes vs angle brackets for header files	
lecture02	p. 7
Doubly linked list	
lecture06	p. 8
Dumping a binary file	
lecture04	p. 3
Dynamic memory	
lecture04	p. 16-18
lecture05	p. 1,2,17-20
Dynamic memory example	
lecture04	p. 19

E

EDP	
lecture05	p. 16
Electronic Data Processing	
lecture05	p. 16
`else`	
lecture01	p. 21,23
`else if`	
lecture01	p. 23
Encoding	
lecture01	p. 9
lecture02	p. 15
End-of-string marker	
lecture01	p. 14,15
`EOF`	
lecture02	p. 9,10
Epoch	
lecture03	p. 2
`errno`	
lecture03	p. 1
`errno.h`	
lecture03	p. 1
Error checking	
lecture02	p. 2-4
lecture03	p. 1
Error management	
lecture02	p. 4,5
Exam	
lecture01	p. 3
Exam dates	
lecture01	p. 3
Example of pointer usage	
lecture03	p. 8
Example: day of the week when you were born	
lecture03	p. 21-23
Example: linked list	
lecture06	p. 4-6
Exams	
lecture01	p. 2-4
Exception	
lecture02	p. 4,5
Executable	
lecture01	p. 16
Expectations	
lecture01	p. 2
Exponent	
lecture01	p. 12
Exponential distribution	
lecture03	p. 3
`extern`	
lecture04	p. 7
lecture04	p. 7

F

Factorial
  lecture05 p. 14
fclose()
  lecture03 p. 25
fepf()
  lecture04 p. 1
ferror()
  lecture04 p. 1
fgetc()
  lecture02 p. 9
  lecture04 p. 1
fgets()
  lecture01 p. 16
  lecture02 p. 10
  lecture04 p. 14
fgets():Return value
  lecture03 p. 1
FIFO
  lecture06 p. 8
FILE
  lecture03 p. 26
FILE *
  lecture03 p. 25
Files
  lecture03 p. 24-26
Final exam
  lecture01 p. 3
First In First Out
  lecture06 p. 8
float
  lecture01 p. 12
flock()
  lecture04 p. 2
Flow control
  lecture01 p. 21,23,24
  lecture02 p. 1
fopen()
  lecture03 p. 25,26
for
  lecture02 p. 1
Formatted input and output
  lecture02 p. 10
fprint()
  lecture03 p. 26
fprintf()
  lecture02 p. 10
fputc()
  lecture02 p. 9
  lecture04 p. 1
fputs()
  lecture02 p. 10
  lecture03 p. 26
fread()
  lecture04 p. 1
free()
  lecture04 p. 19
  lecture04 p. 18,21-23
Freeing a binary tree
  lecture06 p. 16
fseek()
  lecture04 p. 2
Function call
  lecture04 p. 8-12
Function declaration
  lecture02 p. 6,7
Function identification
  lecture02 p. 5,6
Function nesting
  lecture01 p. 15
Function pointer
  lecture06 p. 23,24
Function prototype
  lecture01 p. 16
  lecture02 p. 7
Function: Pointers as argument
  lecture04 p. 13,14
  lecture05 p. 2,3
Function: returning an array
  lecture04 p. 11-13
Functions
  lecture04 p. 8
Functions, nesting
  lecture02 p. 6
fwrite()
  lecture04 p. 1

G

Garbage collector
lecture04 p. 19
`gcc`
lecture01 p. 17
lecture01 p. 7
`gcd()`
lecture04 p. 8,9
`getchar()`
lecture02 p. 9
`getopt()`
lecture03 p. 15
`gets()`
lecture02 p. 10
Global variable
lecture03 p. 1
lecture04 p. 15
`gmtime()`
lecture03 p. 21
Grades
lecture01 p. 4

H

Hanoi (towers of)
lecture05 p. 15
Hash function
lecture06 p. 11,12
Hash table
lecture06 p. 11-13
`head`
lecture04 p. 3
Head of list
lecture06 p. 1
Header file
lecture01 p. 16
lecture02 p. 7
Heap
lecture01 p. 8
lecture04 p. 17
Help on functions
lecture02 p. 5
History of C
lecture01 p. 7
Hoare, Antony
lecture05 p. 6
Honesty
lecture01 p. 5

I

`if`
lecture01 p. 21,23
Information
lecture05 p. 16,17
Information Technology
lecture05 p. 16
Initialization of pointer
lecture03 p. 7,8
Initialization of structure
lecture03 p. 16
Input/Output
lecture02 p. 9,10
Insertion in a binary tree
lecture06 p. 15,16
`int`
lecture01 p. 11
`integer operations`
lecture01 p. 11
`isalnum()`
lecture02 p. 11
`isalpha()`
lecture02 p. 11
`isdigit()`
lecture02 p. 11
`islower()`
lecture02 p. 11
ISO
lecture02 p. 16
`isprint()`
lecture02 p. 11
`ispunct()`
lecture02 p. 11
`isspace()`
lecture02 p. 11
`isupper()`

lecture02 p. 11

IT

lecture05 p. 16

J

Java vs C

lecture01 p. 6,12-14,17,18

lecture02 p. 5

lecture03 p. 12,20

lecture04 p. 7

java vs C

lecture04 p. 17

Java vs C

lecture05 p. 1,2,16

lecture06 p. 23

K

K&R

lecture01 p. 6

Keringhan (Brian)

lecture01 p. 6

L

Lab2 hints

lecture05 p. 3-5

Labs

lecture01 p. 3,4

Landis, Evgenii

lecture06 p. 17

Last In First Out

lecture06 p. 7,8

`ld`

lecture01 p. 20

Library file

lecture04 p. 6

LIFO

lecture06 p. 7,8

Linked list

lecture05 p. 22

lecture06 p. 1-10,13

Linker

lecture01 p. 16,17,19,20

lecture04 p. 7-9

Linux

lecture01 p. 2

`localtime()`

lecture03 p. 21

Locking a file

lecture04 p. 2

Logical operators

lecture01 p. 23

`long`

lecture01 p. 11

lecture01 p. 11

Loop

lecture02 p. 1

M

`main()`

lecture01 p. 16

`make`

lecture01 p. 7

lecture04 p. 5,6

lecture04 p. 4-6

Makefile

lecture04 p. 5,6

`malloc()`

lecture04 p. 18-20

lecture05 p. 20

`man`

lecture02 p. 5

Marker (end-of-string)

lecture01 p. 14,15

Mathematical functions

lecture01 p. 19,20

Mathematical functions:Compiler

lecture01 p. 19

Mathematical Induction

lecture05 p. 10

Mathematical induction

lecture05 p. 8-10

Maurolico, Francisco

lecture05 p. 9
`MD5`
lecture06 p. 12
`memory`
lecture01 p. 8
lecture01 p. 8
Memory address
lecture01 p. 9,10
Memory leak
lecture04 p. 22
Method
lecture06 p. 24
Midcourse exam
lecture01 p. 3
`mktime()`
lecture03 p. 21
Multi-threading
lecture04 p. 15,16
Multidimensional array
lecture03 p. 13

N

Name of variable
lecture01 p. 9
Naming a structure
lecture03 p. 16,17
Nesting functions
lecture02 p. 6
Node
lecture05 p. 21,22
Non binary tree
lecture06 p. 20-23
Normal distribution
lecture03 p. 3
Not (logical operator)
lecture01 p. 23
`NULL`
lecture02 p. 10,13
lecture03 p. 1,7

O

Object-Oriented Programming
lecture06 p. 24
`od`
lecture04 p. 3
Or (logical operator)
lecture01 p. 23
Order
lecture05 p. 20,21
Overflow
lecture02 p. 12
Overloading
lecture02 p. 5

P

Pascal, Blaise
lecture05 p. 9
`perror()`
lecture03 p. 1
Pipe
lecture02 p. 9
Pivot
lecture05 p. 6-8
Pointer
lecture01 p. 10
lecture03 p. 4-8,19,20
lecture05 p. 1,2
Pointer arithmetic
lecture03 p. 10,11
Pointer on a function
lecture06 p. 23,24
Pointer on structure
lecture03 p. 19,20
Pointer to a file
lecture03 p. 25
Pointer vs array
lecture03 p. 6,8,9,12
Pointers
lecture04 p. 11,12
Pointers as arguments to a function
lecture04 p. 13,14
lecture05 p. 2,3
Pointers as parameters
lecture06 p. 2,3

`pptx`
- *lecture04* p. 3

Preprocessor
- *lecture01* p. 16-18,20

`printf()`
- *lecture02* p. 8,10

Priorities
- *lecture06* p. 8

Prototype (function)
- *lecture01* p. 16

Prototype (functions)
- *lecture02* p. 7

`putchar()`
- *lecture02* p. 9

`puts()`
- *lecture02* p. 10

Q

Quality
- *lecture01* p. 5

Quick-sort
- *lecture05* p. 6-8,11-14

R

Radix
- *lecture01* p. 12

`random()`
- *lecture03* p. 2,3

Reading ZIP or XML
- *lecture04* p. 3

`realloc()`
- *lecture04* p. 18
- *lecture05* p. 19,20

Recursion
- *lecture05* p. 10-15
- *lecture06* p. 5,6

Recursion vs loops
- *lecture05* p. 14

Reference
- *lecture03* p. 7

Reference to structure filed
- *lecture03* p. 16

Return value
- *lecture02* p. 3,4,8

Return value from main()
- *lecture01* p. 16

Ritchie (Dennis)
- *lecture01* p. 6,7

Ritchie, Dennis
- *lecture01* p. 6

Robustness
- *lecture01* p. 5

Root
- *lecture06* p. 14

Rounding error
- *lecture01* p. 12

S

`scanf()`
- *lecture01* p. 16
- *lecture02* p. 3,4,10
- *lecture04* p. 14

Schedule
- *lecture01* p. 1

Search
- *lecture06* p. 9,10

Self-managing list
- *lecture06* p. 8

Semi-colon
- *lecture01* p. 15

`setlocale`
- *lecture02* p. 15

`setlocale()`
- *lecture03* p. 3

`SHA1`
- *lecture06* p. 12

Shared library
- *lecture04* p. 7

`short`
- *lecture01* p. 11

`signed`
- *lecture01* p. 11,12

Single quote
- *lecture01* p. 15

sizeof()
lecture03 p. 6,13
Sorting
lecture05 p. 6-8,11-14,19
sscanf()
lecture01 p. 16
Stack
lecture01 p. 8
lecture04 p. 9-12
static
lecture04 p. 7,16
Static variable
lecture04 p. 16
stderr
lecture02 p. 9
lecture02 p. 9
lecture03 p. 1
stdin
lecture02 p. 9
lecture02 p. 9,10
lecture03 p. 24,25
stdio.h
lecture03 p. 25
stdlib.h
lecture03 p. 1
lecture04 p. 18
stdout
lecture02 p. 9,10
lecture02 p. 9,10
lecture03 p. 24,25
Strategy
lecture06 p. 7,8
strcasecmp()
lecture02 p. 13
strcat()
lecture02 p. 12
strchr()
lecture02 p. 13
strcmp()
lecture02 p. 12,13
strcpy()
lecture02 p. 12
strdup()
lecture04 p. 18
lecture05 p. 18
Stream
lecture02 p. 9
Stream redirection
lecture03 p. 24
strerror()
lecture03 p. 1
String
lecture01 p. 10,14,15
String array
lecture03 p. 12,13
String comparison
lecture02 p. 12,13
String conversion to number
lecture03 p. 1
String declaration
lecture03 p. 11
String search
lecture02 p. 13
string.h
lecture02 p. 11-13
lecture04 p. 18
Strings
lecture02 p. 11-13
lecture03 p. 1
strlen()
lecture02 p. 11
strncasecmp()
lecture02 p. 13
strncat()
lecture02 p. 12
strncmp()
lecture02 p. 12,13
strncpy()
lecture02 p. 12
strrchr()
lecture02 p. 13
strsep()
lecture02 p. 14
strstr()
lecture02 p. 13
strtod()
lecture03 p. 1
strtok()
lecture02 p. 13,14
strtol()

lecture03 p. 1
Struct
lecture03 p. 20
`struct`
lecture03 p. 15,17,20,23
lecture03 p. 16-20
lecture05 p. 17
`struct tm`
lecture03 p. 21
Structure alignment
lecture03 p. 18
Structure and pointer
lecture03 p. 19,20
Structure initialization
lecture03 p. 16
Structure naming
lecture03 p. 16,17
Structures
lecture03 p. 15-20
`switch`
lecture01 p. 24

T

Tail pointer
lecture06 p. 7,8
Thomson (Ken)
lecture01 p. 7
Thomson, Ken
lecture01 p. 6
Time functions
lecture03 p. 2,20,21
`time()`
lecture03 p. 2,21
`time.h`
lecture03 p. 21
lecture03 p. 2,21
`timegm()`
lecture03 p. 21
`time_t`
lecture03 p. 21
lecture03 p. 2
Tokenizing
lecture02 p. 13,14
`tolower()`
lecture02 p. 11
`toupper()`
lecture02 p. 11
Towers of Hanoi
lecture05 p. 15
Tree
lecture06 p. 13,20-23
`typedef`
lecture03 p. 17

U

Unicode
lecture02 p. 15,17,18
`union`
lecture03 p. 23
lecture03 p. 24
UNIX
lecture01 p. 6
Unix
lecture01 p. 7
Unix pipe
lecture02 p. 9
`unlink()`
lecture04 p. 2
`unsigned`
lecture01 p. 11,12
UTF-16
lecture02 p. 17
UTF-32
lecture02 p. 17
UTF-8
lecture02 p. 15,18

V

Variable declaration
lecture01 p. 9
Variable name
lecture01 p. 9
Variable number of parameters
lecture02 p. 6

Visual Studio
  lecture01 p. 7
void
  lecture04 p. 13
void*
  lecture04 p. 18
Von Neumann (John)
  lecture01 p. 8
Von Neumann, John
  lecture04 p. 9

W

Walking a binary tree
  lecture06 p. 16
wchar
  lecture02 p. 14,15
while
  lecture02 p. 1
Wide char
  lecture02 p. 14,15

X

Xcode
  lecture01 p. 7
XML
  lecture04 p. 3

Z

ZIP
  lecture04 p. 3