

**A**

Abbreviations - Use Carefully..... 10:8  
 Aborting a Program ..... 10:24  
 Accessing an Item in a Table ..... 1:2  
 ADV/NOADV ..... 3:7  
 Alternate Indexes and Paths ..... 5:10  
 Alternative Style ..... 10:11  
 AMS: Access Method Services ..... 5:13  
 AMS Commands ..... 5:13  
 Assignment ..... 11:4  
 Avoid Names that Look Alike ..... 10:7

**B**

Binary Search - SEARCH ALL..... 1:15  
 Blank Lines in Source ..... 10:4  
 Bottom-up Implementation: Problems..... 4:12  
 BUFSIZE(4096|nnnn|nnnK) ..... 3:7  
 Building a System Using Subprograms ..... 7:4

**C**

CALL . . . RETURNING..... 7:16  
 CALL Formats ..... 7:15  
 CALL Statement..... 7:4  
 CALL Types ..... 7:2  
 Called Program: One Entry Point..... 7:9  
 Called Program: Two Entry Points..... 7:11  
 Calling - Nested Programs ..... 9:6  
 Calling and Called Programs ..... 7:3  
 Calling Program: Two Entry Points ..... 7:10  
 Case Structure ..... 4:17  
 Case Structure - Default Clause ..... 10:13  
 Clauses ..... 9:2  
 Clauses - Lining Up..... 10:4  
 Cluster ..... 5:6  
 COBOL Programs - Comments ..... 10:1  
 COBOL SORT Verb ..... 2:6  
 COBOL Subprogram Linkage Exchange: Called Program..... 7:6  
 COBOL Unicode Support and XML Processing ..... 11:8  
 Commas ..... 10:4  
 Comment Guidelines..... 10:1  
 Comments - COBOL Programs ..... 10:1  
 Comments in COBOL Programs..... 10:1  
 COMMON Clause ..... 9:2  
 Common Error Conditions..... 10:18  
 Common Opposites ..... 10:7  
 Compilation and Compiler Listing ..... 3:1  
 COMPILE/NOCOMPILE/NOCOMPILE[W|E|S] ..... 3:7  
 Compiler Message Codes..... 3:2  
 Compiler Message Format..... 3:3

Compiler Options .....	3:6
Compiler Options: Specifying.....	3:4
Compiler Options - Unicode.....	11:2-3
Compiler Options: Uses .....	3:4
Component.....	5:5
Connecting a Program to a VSAM Dataset .....	6:7
Control Interval and Control Areas.....	5:12
Controlling Sort Behavior .....	2:17
Conventions - Nested Programs .....	9:6
Converting Data Items .....	8:3
Converting to Numbers .....	8:4
Converting to Reverse Order .....	8:4
Converting to Upper Case or Lower Case .....	8:4
Cryptic Names.....	10:9
Current Record Pointer .....	6:9
CURRENT-DATE .....	8:8

**D**

Data Division .....	6:5
Data Division Considerations.....	2:3
Data Names .....	10:5
Data Striping .....	5:16
Data Type - Unicode .....	11:2
DATA(24 31) .....	3:7
Date of Compilation - Ascertaining .....	8:7
DECK/NODECK.....	3:8
Default Clause in a Case Structure.....	10:13
Defining a VSAM Dataset in a Program.....	6:1
Defining Sort Datasets .....	2:14
DELETE Statement.....	6:25
Different Messages for Different Errors .....	10:22
Disconnecting a Program from a VSAM Dataset.....	6:26
Displaying the Additional File Status.....	6:38
DUMP/NODUMP.....	3:8
DYNAM/NODYNAM .....	3:8

**E**

Embedded Compiler Diagnostic Messages.....	3:1
Entry Points - Multiple .....	10:15
Environment Division Considerations .....	2:2
Error Conditions - Common .....	10:18
Error Handling .....	10:20
Error Handling - Testing .....	10:21
Error Messages - Issuing.....	10:23
Error Reporting.....	10:21
Error Types.....	10:17
ESDS: Entry Sequence Datasets .....	5:7
Evaluating Data Items .....	8:5
Evaluating Single Characters for Collating Sequences .....	8:5

Example: Called and Calling Program .....	7:8
Example: Calling Program .....	7:5
Example: Detail Diagram .....	4:9
Example: Fastsort .....	2:13
Example: Nested Programs .....	9:1
Example: Overview Diagram.....	4:8
Example: Structure Chart.....	4:4
Example: Visual Table of Contents.....	4:7
EXTERNAL Clause in File Section .....	9:2
EXTERNAL Clause: Sharing Data.....	7:17
EXTERNAL Files: Advantages.....	7:17
External Variable .....	9:4
<b>F</b>	
Faster Sort Facility .....	2:13
FASTSORT/NOFASTSORT .....	3:8
Fatal Errors.....	10:17
FDUMP/NOFDUMP .....	3:8
FILE STATUS Values .....	6:27
Finding the Length of Data Items .....	8:6
FLAG(x[,y])/NOFLAG .....	3:8
Flags and Switches - Naming .....	10:9
Flags - Naming.....	10:9
Formatting Source Code .....	10:2
Functional Commands .....	5:14
Function-identifier.....	8:1
<b>G</b>	
GLOBAL Clause in File Section.....	9:2
GLOBAL Variable.....	9:3
GOTO Statement .....	10:12
<b>H</b>	
Handle Errors from the Beginning.....	10:20
Hierarchy of Compiler Options.....	3:5
HIPO: Hierarchical Plus Input, Process, Output, Diagram.....	4:5
<b>I</b>	
Identification Division .....	2:1
Improved Cross-Reference of Data Names.....	3:2
Indentation .....	10:3
Indexed Organization .....	6:4
Indexing.....	1:4
Input and Output Statements for VSAM Files.....	6:6
Interpreting the First File Status.....	6:37
Intrinsic Functions as Reference Modifiers .....	8:2
Invalid Key Condition .....	6:9
Iteration Structure.....	4:16
In-line PERFORM - Short Loops.....	10:13
Intrinsic Functions .....	11:6
Issuing Error Messages .....	10:23

**K**

Key Field ..... 5:4  
 KSDS and Table ..... 6:31  
 KSDS: Key-Sequenced Datasets ..... 5:8

**L**

Lining Up Clauses ..... 10:4  
 Literals - Unicode ..... 11:2  
 Lumped Parameters ..... 10:16  
 LIB/NOLIB ..... 3:8  
 LINECOUNT(nn|60) ..... 3:8  
 LIST/NOLIST ..... 3:9  
 Loading a Table Dynamically ..... 1:5  
 Logical Record ..... 5:3

**M**

MAP/NOMAP ..... 3:9  
 MAX and MIN Functions ..... 8:6  
 Modal Commands ..... 5:15  
 Modularity ..... 4:1  
 Multiple Entry Points ..... 10:15

**N**

Names that Look Alike - Avoid ..... 10:7  
 Naming Flags and Switches ..... 10:9  
 Nested Programs ..... 9:6  
 Nested Programs - Advantages ..... 9:1  
 Non-fatal Errors ..... 10:17  
 Numbering Schemes ..... 10:11  
 NUMBER/NONUMBER ..... 3:9

**O**

OBJECT/NOBJECT ..... 3:9  
 OFFSET/NOOFFSET ..... 3:9  
 OMITTED Arguments ..... 7:14  
 OPTIMIZE/NOOPTIMIZE ..... 3:9  
 OUTDD(SYSOUT|ddname) ..... 3:9

**P**

Paragraph - Describing What it Does ..... 10:10  
 Paragraph Names ..... 10:10  
 Passing Data ..... 7:12  
 PERFORM versus GOTO ..... 4:18  
 PFDSGN/NOPFDSGN ..... 3:9  
 Prefixes ..... 10:6  
 Prefixes and Suffixes ..... 10:6  
 Procedure Division Considerations ..... 2:4  
 Procedure Division Considerations for a Called Program ..... 7:7  
 PROCEDURE DIVISION RETURNING ..... 7:16  
 Processing VSAM Datasets ..... 6:9  
 Program - Aborting ..... 10:24  
 Programming Example ..... 2:6

**Q**

QUOTE/APOST ..... 3:7

**R**

Random Read - KSDS ..... 6:20, 6:21  
 READ Statement ..... 6:16  
 Reading Records from a VSAM File ..... 6:10  
 Relative Organization ..... 6:4  
 RELEASE Statement Format ..... 2:5  
 RENT/NORENT ..... 3:10  
 RESIDENT/NORESIDENT ..... 3:10  
 Reserved Words - Potential - Avoid ..... 10:5  
 Rewriting Code - Incrementally ..... 10:25  
 RETURN Statement Format ..... 2:5  
 REWRITE Statement ..... 6:23  
 RRDS: Relative Record Datasets ..... 5:8

**S**

Sample Program ..... 1:6,1:8,1:17  
 Scope of Names in a Nested Structure ..... 9:7  
 SEARCH ALL Statement ..... 1:16  
 Searching a Table ..... 1:12  
 SEARCH - Doing a Serial Search ..... 1:11  
 Selection Structure ..... 4:15  
 Sequence Structure ..... 4:14  
 SEQUENCE/NOSEQUENCE ..... 3:10  
 Sequential Organization ..... 6:3  
 Sequential Read - KSDS ..... 6:17  
 SET Statement ..... 1:14  
 Short Loops - Use an In-line PERFORM ..... 10:13  
 SIZE(nnnnn|nnnK|MAX) ..... 3:10  
 Sort - Determining Successful ..... 2:15  
 Sort File Description ..... 2:3  
 SORT - Output PROC ..... 2:9  
 Sort SELECT Format ..... 2:2  
 SORT Statement Format ..... 2:4  
 Sorting Data Files ..... 2:1  
 Sorting - What is it? ..... 2:1  
 Source Code - Formatting ..... 10:2  
 SOURCE/NOSOURCE ..... 3:10  
 SPACE(1|2|3) ..... 3:10  
 Spaghetti Code - Rewriting ..... 10:25  
 Specifying the Additional File Status ..... 6:36  
 SSRANGE/NOSSRANGE ..... 3:10  
 START Program - KSDS ..... 6:15  
 START Statement ..... 6:13  
 Statements on a Line - Multiple ..... 10:3  
 Status Codes - Check ..... 10:23  
 STOP RUN ..... 1:14

Stopping a Sort ..... 2:16  
 Structure Chart / Hierarchy Chart ..... 4:3  
 Structure of a Nested Program ..... 9:5  
 Subprogram ..... 7:1  
 Subprogram: Advantages ..... 7:1  
 Subprogram Linkage ..... 7:13  
 Subprogram Parameters ..... 10:15  
 Subprogram Termination ..... 7:7  
 Subprograms - Reasons ..... 10:14  
 Subscripting ..... 1:3  
 Suffixes ..... 10:6  
 Supporting Unicode ..... 11:5  
 Switches - Naming ..... 10:9

**T**

Table of Functions ..... 8:9  
 Tables - Purpose and Facilities ..... 1:1  
 TERM/NOTERM ..... 3:11  
 TEST/NOTEST ..... 3:11  
 Test the Error Handling ..... 10:21  
 Three Types of Diagrams Associated with a HIPO ..... 4:6  
 Top-down Coding ..... 4:10  
 Top-down Design ..... 4:2  
 Top-down Testing ..... 4:11  
 Top-down Testing: Benefits ..... 4:13  
 TRUNC/NOTRUNC ..... 3:11  
 Two Approaches to Debugging ..... 9:1

**U**

Unicode - What is it ..... 11:1  
 Unicode Compares ..... 11:4  
 Unicode Compiler Options ..... 11:2-3  
 Unicode Data Type ..... 11:2  
 Unicode: DB2 COBOL Programs ..... 11:7  
 Unicode Example ..... 11:9  
 Unicode Literals ..... 11:2  
 Unicode Support ..... 11:2  
 Unicode: Why ..... 11:1

**V**

Variable-length Tables ..... 1:9  
 Variables ..... 9:3  
 VBREF/NOVBREF ..... 3:12  
 VSAM ..... 5:1  
 VSAM Additional File Status Information ..... 6:36  
 VSAM Catalogs ..... 5:2  
 VSAM Datasets ..... 5:7

**W**

What is Unicode ..... 11:1  
Why Unicode ..... 11:1  
WORD/NOWORD ..... 3:11  
WRITE Statement ..... 6:11

**X**

XML Processing and COBOL Unicode Support ..... 11:8  
XREF/NOXREF ..... 3:11