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Note: You can also use the SAS File I/O functions such as CUROBS, NOTE, POINT and FETCHOBS to access observations by observation number. The following figure shows the results of one-to-

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one reading ...

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Increase the modularity,
flexibility, and
maintainability of your SAS
code with the SAS macro
facility. This comprehensive
reference provides complete
information about macro

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language elements,
interfaces between the macro
facility and other parts of
SAS software, and macro
processing in general. With
this title, you will learn
how to create efficient and
portable macro code, reduce

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the amount of text needed for common tasks, integrate macros with other parts of your SAS programs, and debug macros during development. This title is also available online. To take advantage of this book, you should have

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at least an intermediate knowledge of Base SAS programming. Supports releases 9.1 and higher of SAS software.

For SAS programmers or analysts who need to

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generalize their programs or improve programming efficiency, Art Carpenter thoroughly updates his highly successful second edition of Carpenter's Complete Guide to the SAS Macro Language with an

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extensive collection of new macro language techniques and examples. Addressing the composition and operation of the SAS macro facility and the SAS macro language, this third edition offers nearly 400 ready-to-use macros,

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macro functions, and macro tools that enable you to convert SAS code to macros, define macro variables, and more! Users with a basic understanding of Base SAS who are new to the SAS macro language will find more

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detail, utilities, and references to additional learning opportunities; advanced macro language programmers who need help with data-driven macros and dynamic application development will find

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greatly expanded treatment
of these topics. This
revised and enlarged edition
includes the following
topics: New and expanded
introduction to the macro
language Functions,
automatic macro variables,

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and macro statements new to
the macro language Expanded
macro language tools that
interface with the operating
system Expanded data-driven
methodologies used to build
dynamic applications
Expanded discussion of list

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processing, with four
alternative approaches
presented Additional file
and data management examples
Expanded discussion of CALL
EXECUTE and DOSUBL New
discussion of using the
macro language on remote

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servers Expanded discussion
and examples of macro
quoting Far beyond a
reference manual issued from
an “ivory tower,” this book
is pragmatic and example-
driven: Yes, you will find
syntax examples; yes, the

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code is explained. But the focus of this book is on actual code used to solve real-world business problems. In fact, an entire appendix is dedicated to listing the nearly 70 classes of problems that are

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solved by programs covered in this edition. Discussion of the examples elucidates the pros and cons of the particular solution and often suggests alternative approaches. Therefore, this book provides you both a

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compendium of reusable and adaptable code, and opportunities for deepening your understanding and growing as a SAS programmer.

The official guide by the
SAS Global Certification

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Program, SAS Certified
Professional Prep Guide:
Advanced Programming Using
SAS 9.4 prepares you to take
the new SAS 9.4 Advanced
Programming Performance-
Based Exam. New in this
edition is a workbook whose

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sample scenarios require you to write code to solve problems and answer questions. Answers to the chapter quizzes and solutions to the sample scenarios in the workbook are included. You will also

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find links to exam objectives, practice exams, and other resources such as the Base SAS Glossary and a list of practice data sets. Major topics include SQL processing, SAS macro language processing, and

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advanced SAS programming techniques. All exam topics are covered in the following chapters: SQL Processing with SAS PROC SQL Fundamentals Creating and Managing Tables Joining Tables Using PROC SQL

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Joining Tables Using Set
Operators Using Subqueries
Advanced SQL Techniques SAS
Macro Language Processing
Creating and Using Macro
Variables Storing and
Processing Text Working with
Macro Programs Advanced

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Macro Techniques Advanced
SAS Programming Techniques
Defining and Processing
Arrays Processing Data Using
Hash Objects Using SAS
Utility Procedures Using
Advanced Functions Practice
Programming Scenarios

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(Workbook)

A step-by-step introduction
to using SAS® statistical
software as a foundational
approach to data analysis
and interpretation
Presenting a straightforward

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introduction from the ground up, SAS® Essentials: Mastering SAS for Data Analytics, Second Edition illustrates SAS using hands-on learning techniques and numerous real-world examples. Keeping different

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experience levels in mind, the highly-qualified author team has developed the book over 20 years of teaching introductory SAS courses. Divided into two sections, the first part of the book provides an introduction to

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data manipulation,
statistical techniques, and
the SAS programming
language. The second section
is designed to introduce
users to statistical
analysis using SAS
Procedures. Featuring self-

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contained chapters to enhance the learning process, the Second Edition also includes: Programming approaches for the most up-to-date version of the SAS platform including information on how to use

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the SAS University Edition
Discussions to illustrate
the concepts and highlight
key fundamental
computational skills that
are utilized by business,
government, and
organizations alike New

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chapters on reporting
results in tables and factor
analysis Additional
information on the DATA step
for data management with an
emphasis on importing data
from other sources,
combining data sets, and

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data cleaning Updated ANOVA
and regression examples as
well as other data analysis
techniques A companion
website with the discussed
data sets, additional code,
and related PowerPoint®
slides SAS Essentials:

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Mastering SAS for Data Analytics, Second Edition is an ideal textbook for upper-undergraduate and graduate-level courses in statistics, data analytics, applied SAS programming, and statistical computer applications as

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well as an excellent supplement for statistical methodology courses. The book is an appropriate reference for researchers and academicians who require a basic introduction to SAS for statistical analysis and

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for preparation for the
Basic SAS Certification
Exam.

Prepare for the SAS Base
Programming for SAS 9 exam
with the official guide by
the SAS Global Certification

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Program. New and experienced SAS users who want to prepare for the SAS Base Programming for SAS 9 exam will find this guide to be an invaluable, convenient, and comprehensive resource that covers all of the

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objectives tested on the exam. Now in its fourth edition, the guide has been extensively updated, and revised to streamline explanations. Major topics include importing and exporting raw data files,

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creating and modifying SAS data sets, and identifying and correcting data syntax and programming logic errors. The chapter quizzes have been thoroughly updated and full solutions are included at the back of the

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book. In addition, links are provided to the exam objectives, practice exams, and other helpful resources, such as the updated Base SAS glossary and an expanded collection of practice data sets.

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To write an accomplished program in the DATA step of SAS®, programmers must understand programming logic and know how to implement

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and even create their own programming algorithm. Handbook of SAS® DATA Step Programming shows readers how best to manage and manipulate data by using the DATA step. The book helps novices avoid common

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mistakes resulting from a lack of understanding fundamental and unique SAS programming concepts. It explains that learning syntax does not solve all problems; rather, a thorough comprehension of SAS

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processing is needed for successful programming. The author also guides readers through a programming task. In most of the examples, the author first presents strategies and steps for solving the problem, then

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offers a solution, and finally gives a more detailed explanation of the solution. Understanding the DATA steps, particularly the program data vector (PDV), is critical to proper data manipulation and management

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in SAS. This book helps SAS programmers thoroughly grasp the concept of DATA step processing and write accurate programs in the DATA step. Numerous supporting materials, including data sets and

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programs used in the text,
are available on the book's
CRC Press web page.

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