```cobol
000024
000025          PROCEDURE DIVISION.
000026          0001-MAIN.
000027              INSPECT FUNCTION REVERSE(STR-1)
000028                   TALLYING WS-LEN1 FOR LEADING SPACES.
000029              COMPUTE  WS-LEN = LENGTH OF STR-1 - WS-LEN1.
000030              DISPLAY WS-LEN.
000031              MOVE 1 TO I.
000032              MOVE WS-LEN TO J.
000033              PERFORM REV-PARA WS-LEN TIMES.
000034              DISPLAY STR-1.
000035              DISPLAY STR-2.
000036              GOBACK.
000037           REV-PARA.
000038              MOVE STR-1(J:1) TO STR-2(I:1).
000039              SUBTRACT 1 FROM J.
000040              ADD 1 TO I.
000041              EXIT.
****** ***************************** Bottom of Data *****************************
```

Modern Cobol Programming

Patrick Vollmar

Modern Cobol Programming:

   Modern COBOL Programming for Beginners John Bailey,2025-10-25 Discover why COBOL remains one of the world s most essential programming languages and learn how to program it using modern free tools This comprehensive beginner s guide teaches COBOL from the ground up using GnuCOBOL and Visual Studio Code making enterprise programming accessible to everyone Despite common misconceptions COBOL isn t dead it powers 95% of ATM transactions 80% of in person transactions and processes trillions of dollars daily in banking insurance government and healthcare systems worldwide With experienced COBOL programmers retiring and demand surging now is the perfect time to learn this lucrative skill What You ll Learn Set up a professional COBOL development environment with free open source GnuCOBOL across Windows macOS and Linux Master COBOL s four division structure and coding conventions Work with data types PIC clauses and variable declarations Perform arithmetic operations and handle precision correctly Implement control structures for decision making and looping Manipulate strings and process data efficiently Handle file I O including sequential indexed and relative files Work with tables arrays and complex data structures Create modular programs with subprograms and reusable code Debug effectively using VS Code s integrated tools Build real world applications including banking systems and report generators Why This Book Unlike outdated COBOL resources focusing on mainframe punch cards this book teaches modern COBOL development using contemporary tools and workflows You ll use Visual Studio Code with syntax highlighting debugging and Git integration bringing COBOL into the 21st century No prior programming experience required What Makes COBOL Valuable Job Security Critical shortage of COBOL programmers with systems requiring decades of maintenance High Salaries Experienced COBOL developers command premium rates Enterprise Systems Powers mission critical applications in Fortune 500 companies Longevity Skills remain relevant as legacy systems continue operating indefinitely Modernization Projects Companies actively seeking developers to maintain and update COBOL systems Hands On Learning Each chapter includes practical examples exercises and tips Progress from Hello World to building complete applications like banking systems and data processors Sample code available in companion GitHub repository Real World Projects Simple banking application with account management Report generator for business intelligence Data processor for batch operations Integration examples with modern technologies Who This Book Is For Complete programming beginners seeking a lucrative career path Students interested in enterprise software development Career changers targeting high demand well paying positions Developers maintaining or modernizing legacy systems IT professionals needing COBOL skills for organizational needs Bonus Content Quick reference guide for COBOL keywords GnuCOBOL command reference VS Code shortcuts and configuration tips Career guidance and certification information Resources for continued learning

   Modern Cobol Programming Price,1987-09-01   **Modern Cobol Programming** Wilson Price,Jack Olson,1991-02-01
   COBOL Mastery: The Definitive Handbook for Modern Programming Adam Jones,2025-01-02 COBOL Mastery The

Definitive Handbook for Modern Programming is the ultimate guide for anyone eager to explore or enhance their expertise in one of the most resilient programming languages pivotal to the realms of business and finance Whether you re a newcomer captivated by COBOL s unique role in today s tech ecosystem or an experienced developer seeking to polish your skills this handbook paves the way to mastering COBOL programming This expertly crafted book delves into all vital aspects of COBOL spanning from its historical beginnings to advanced data management With comprehensive chapters on structures syntax file handling procedures debugging and database management readers will find practical examples thorough explanations and insightful strategies to optimize and modernize COBOL applications for contemporary demands Whether your goal is to develop new COBOL applications maintain legacy systems or integrate COBOL with innovative technologies COBOL Mastery equips you with the knowledge and tools essential for success Seize the chance to be part of the cohort of adept COBOL programmers who continue to uphold the backbone of global business infrastructures Begin your journey to COBOL mastery today **Modern COBOL Programming** Wilson T. Price,Jack L. Olson,1991-01-01 **Instructor's Guide for COBOL Programming** Wilson Price,Jack Olson,1991 Modern COBOL Programming Wilson T. Price,Jack L. Olson,1987 **Modern Mainframe Development** Tom Taulli,2022-03-16 Even as spending on digital transformation continues to skyrocket mainframes nevertheless have major advantages for global enterprises These systems still process huge amounts of information and allow for highly secure processing In this practical book author Tom Taulli shows software developers how to pursue a hybrid approach by integrating traditional mainframes and applications with modern digital systems By the end of the book you ll have a solid understanding of the mainframe architecture and ecosystem including core concepts and technologies such as COBOL JCL DB2 VSAM and CICS You ll learn how to blend in newer technologies such as the cloud AI and machine learning and the use of microservices This handbook is indispensable for enterprises looking to thrive in the new digital world Learn strategies and approaches for mainframe DevOps Update and maintain existing mainframe code and analyze and resolve common errors Apply modern approaches to the mainframe including microservices APIs cloud and AI and machine learning Work with datasets and databases and put together effective reports Understand how to work with modern cloud systems like AWS for pursuing data migration **Mastering COBOL Programming** Hasanraza Ansari,2023-10-07 Mastering COBOL Programming A Comprehensive Guide for Modern Software Development In the fast paced world of software development mastering a programming language that has stood the test of time while also staying relevant in the present can be an invaluable asset Welcome to Mastering COBOL Programming a comprehensive guide designed to engage and empower readers ensuring they not only learn COBOL but also stay curious and eager to explore its depths Engaging Exploration We understand that today s learners are impatient for practical knowledge so we ve crafted this book to be engaging right from the start From the very first chapter you ll embark on a captivating journey into the world of COBOL discovering its rich history relevance today and even coding your inaugural COBOL program Our goal is to ignite

your curiosity making sure you re hooked from the outset Step by Step Learning Patience is a virtue but it shouldn t be a barrier to your progress That s why we ve adopted a step by step approach throughout the book Each concept is explained with clarity accompanied by examples and exercises that reinforce your understanding You ll never feel overwhelmed as you gradually build your COBOL skills Modular Mastery To keep your curiosity piqued we ve incorporated modular programming principles that allow you to grasp complex concepts in digestible chunks Subprograms object oriented COBOL and modularization techniques are demystified enabling you to create clean maintainable code Real World Applications Impatience often stems from not seeing the real world relevance of what you re learning That s why we ve dedicated a section to explore COBOL s application in industries like finance healthcare and government You ll discover how your COBOL skills can directly impact critical sectors boosting your enthusiasm Exciting Future Beyond the fundamentals we delve into advanced topics like debugging troubleshooting and performance optimization These skills are essential for modern software development and will keep you engaged by challenging you to push the boundaries of COBOL Answers at Your Fingertips We value your time so we ve included answers to exercises ensuring you can verify your solutions swiftly No more waiting for feedback you can check your progress instantly Comprehensive Reference Additionally we ve included an appendix with a COBOL syntax reference ensuring you have a quick and handy resource at your fingertips Your COBOL Journey Continues As your journey through this book concludes you ll find a reflection on your path further resources and an exciting glimpse into the future of COBOL We aim to leave you curious and eager to continue your exploration In Mastering COBOL Programming we ve created a learning experience that respects your impatience for knowledge Our engaging approach practical examples and real world applications will keep you captivated throughout your COBOL journey ensuring you re well prepared for the dynamic world of modern software development **Visual COBOL** Paul Kelly,2017-03-30 Forget what you think you may know about COBOL Even though the language is more than 50 years old COBOL applications still reign in the world of enterprise IT With billions of transactions executed every day and often running behind the scenes COBOL systems touch many aspects of our daily lives Your mission To start a new era of innovation powered by modern tools that bridge COBOL systems to the world of Java and NET Brought to you by Micro Focus www microfocus com the leader in COBOL development tools this book is written for the COBOL Java and NET developer Key features include A simplified real world example to illustrate key concepts an explanation of the NET and Java object models for the COBOL developer an introduction to COBOL for the Java or NET developer a complete reference to the new syntax for Visual COBOL and a free student development tools license integrated within Visual Studio and Eclipse The author Paul Kelly has worked at Micro Focus for over twenty years He started as a technical author before moving into software development Paul worked on Visual COBOL for 10 years between 2002 and 2012 initially on Visual Studio development then later on Eclipse before changing roles again to work as an architect developing a cloud based SaaS offering for Micro Focus **Brink's Modern Internal Auditing** Robert R.

Moeller,2005-01-07 Brink s Modern Internal Auditing Sixth Edition is a comprehensive resource and reference book on the changing world of internal auditing including Sarbanes Oxley compliance issues Sixth edition of a very well respectede auditing resource Provides an overview of the role and responsibilities of the internal auditor Includes discussion of the Sarbanes Oxley Act and the impact it has on auditing particualry concerning controls Provides expanded coverage of fraud and business ethics Includes guidance on reporting results effectively Provides in depth discussion of internal audit and corporate governance   **Schaum's Outline of Theory and Problems of Programming with Modern Structured COBOL** Lawrence R. Newcomer,1995   *Modern Methods for COBOL Programmers* John R. Pugh,Doug Bell,1983   Modern Structured Programming Robin Schneyer,1984   *A History of Modern Computing, second edition* Paul E. Ceruzzi,2003-04-08 From the first digital computer to the dot com crash a story of individuals institutions and the forces that led to a series of dramatic transformations This engaging history covers modern computing from the development of the first electronic digital computer through the dot com crash The author concentrates on five key moments of transition the transformation of the computer in the late 1940s from a specialized scientific instrument to a commercial product the emergence of small systems in the late 1960s the beginning of personal computing in the 1970s the spread of networking after 1985 and in a chapter written for this edition the period 1995 2001 The new material focuses on the Microsoft antitrust suit the rise and fall of the dot coms and the advent of open source software particularly Linux Within the chronological narrative the book traces several overlapping threads the evolution of the computer s internal design the effect of economic trends and the Cold War the long term role of IBM as a player and as a target for upstart entrepreneurs the growth of software from a hidden element to a major character in the story of computing and the recurring issue of the place of information and computing in a democratic society The focus is on the United States though Europe and Japan enter the story at crucial points on computing per se rather than on applications such as artificial intelligence and on systems that were sold commercially and installed in quantities   COBOL Made Simple Conor Sexton,1998 The main reason for this book is the resurgence in the currency of the COBOL language because of the twin pressures of the Year 2000 problem and European Economic and Monetary Union EMU A whole generation of retired and semi retired COBOL programmers are coming out of the shadows to take on the challenge In response to nearly unlimited demand younger folk are also being crash trained in this most venerable of programming languages The idea behind this book is that it is tight covering just the essence of COBOL using modern programming idioms and giving a synopsis of the Year 2000 problem along with the solutions which can be applied to it If you re under pressure to learn COBOL quickly then you ll be attracted to this book rather than a book of the 1 000 page variety This Made Simple book will give you a modern level headed accurate short jargon free and sometimes humorous coverage of COBOL that is very useful to know and really not very difficult   *Information Systems for Modern Management* Richard W. Brightman,1971   **Modern Data Systems** ,1968

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