



```
1      IDENTIFICATION DIVISION.  
2      PROGRAM-ID.  ATBASH-CIPHER.  
3      ENVIRONMENT DIVISION.  
4      DATA DIVISION.  
5      WORKING-STORAGE SECTION.  
6      01 WS-PHRASE           PIC X(60).  
7      01 WS-RESULT           PIC X(60).  
8      01 LET-COUNTER         PIC 9(2).  
9      01 OUT-COUNTER         PIC 9(2).  
10     PROCEDURE DIVISION.  
11  
12     ENCODE.  
13         MOVE SPACES TO WS-RESULT  
14         MOVE 1 TO LET-COUNTER  
15         MOVE 1 TO OUT-COUNTER  
16         DISPLAY WS-PHRASE
```



SFuruseth's solution to Atbash Cipher on Exercism's COBOL Track.

# Introducing Cobol Exercises

**Judd E. Hollander**



## **Introducing Cobol Exercises:**

Introducing Cobol Christine B. Kay, Barbara Harris, 1996-06-01      Introduction to the New Mainframe: IBM z/VSE Basics Mike Ebbers, Wolfgang Bosch, Hans Joachim Ebert, Helmut Hellner, Jerry Johnston, Marco Kroll, Wilhelm Mild, Wayne O'Brien, Bill Ogden, Ingolf Salm, Joerg Schmidbauer, Martin Walbruehl, IBM Redbooks, 2016-03-02 This IBM Redbooks publication is based on the book Introduction to the New Mainframe z OS Basics SG24 6366 which was produced by the International Technical Support Organization ITSO Poughkeepsie Center It provides students of information systems technology with the background knowledge and skills necessary to begin using the basic facilities of a mainframe computer For optimal learning students are assumed to have successfully completed an introductory course in computer system concepts such as computer organization and architecture operating systems data management or data communications They should also have successfully completed courses in one or more programming languages and be PC literate This textbook can also be used as a prerequisite for courses in advanced topics or for internships and special studies It is not intended to be a complete text covering all aspects of mainframe operation It is also not a reference book that discusses every feature and option of the mainframe facilities Others who can benefit from this course include experienced data processing professionals who have worked with non mainframe platforms or who are familiar with some aspects of the mainframe but want to become knowledgeable with other facilities and benefits of the mainframe environment As we go through this course we suggest that the instructor alternate between text lecture discussions and hands on exercises Many of the exercises are cumulative and are designed to show the student how to design and implement the topic presented The instructor led discussions and hands on exercises are an integral part of the course and can include topics not covered in this textbook In this course we use simplified examples and focus mainly on basic system functions Hands on exercises are provided throughout the course to help students explore the mainframe style of computing At the end of this course you will be familiar with the following information Basic concepts of the mainframe including its usage and architecture Fundamentals of IBM z VSE VSE an IBM zTM Systems entry mainframe operating system OS An understanding of mainframe workloads and the major middleware applications in use on mainframes today The basis for subsequent course work in more advanced specialized areas of z VSE such as system administration or application programming

**Introduction to Programming Using Processing** Mark Meysenburg, 2011-08-02 Written in an informal conversational and humorous style Introduction to Programming Using Processing makes learning programming a fun experience It is almost certainly the only programming textbook in the world with references to Jurassic Park NCIS Chuck Norris and Gamera The freely available Processing language is ideal for a first course in programming The simple to access graphics and multimedia capabilities of the language let students develop eye catching animated programs instead of traditional programs that print text to the console Introduction to Programming Using Processing takes a classes later approach focusing on basics using objects selection iteration top down design and

arrays before writing classes Every example is presented in the context of the RADIS Requirements Analyze Design Implement Support framework with considerable attention paid to design Other positive habits like good commenting practice and coding style are emphasized as well      *An Introduction to Information Processing* Harvey M. Dietel,Barbara Deitel,2014-06-28 An Introduction to Information Processing provides an informal introduction to the computer field This book introduces computer hardware which is the actual computing equipment Organized into three parts encompassing 12 chapters this book begins with an overview of the evolution of personal computing and includes detailed case studies on two of the most essential personal computers for the 1980s namely the IBM Personal Computer and Apple s Macintosh This text then traces the evolution of modern computing systems from the earliest mechanical calculating devices to microchips Other chapters consider the components and operation of typical data communications systems This book discusses as well the various types of communications networks and communications via space satellites The final chapter deals with software or computer programs the sets of instructions that programmers write to inform the computer how to solve particular problems This book is a valuable resource for computer specialists mathematicians and computer programmers      **Intelligent**

**Instruction Computer** Marshall J. Farr,Joseph Psotka,2013-01-11 This text records the dramatic new prospects for computers in instruction in school the workplace and high technology research facilities It offers teachers and trainers a vision of how their professions will be fundamentally altered by these new systems and how their roles will be changed The challenges and opportunities exposed by these developments in intelligent instruction by computer are many Topics discussed include apprenticeship and training in the workplace automated tutoring in interactive environment two approaches to simulation composition for training and transfer adaption and use of intelligent tutoring technology

**Replicating Jobs in Business and Industry for Persons with Disabilities** ,1988      *Computer Programming* J. Maynard,2014-05-12 Computer Programming Made Simple New Edition focuses on the processes principles methodologies techniques and approaches involved in computer programming The publication first takes a look at the introduction to computer structure backing store input and output devices and logic and flowcharting Discussions focus on flowcharting file organization sequencing and security magnetic disc devices optical character recognition keyboard encoders optical mark reading input and output unit and backing store The manuscript then ponders on operating systems data and numbers introduction to COBOL and word types and constants The text examines arithmetic statements MULTIPLY and DIVIDE statements program control data classes in COBOL editing and data transfer Topics include READ and WRITE statements types of editing PICTURE clause file labeling BLOCK CONTAINS clause PERFORM and STOP statements and MULTIPLY DIVIDE and COMPUTE statements The book also tackles microprocessors arrays and subscripts loops and subroutines and program control The publication is a dependable source of data for computer programmers and researchers interested in computer programming      **The OPM Government's Trainer Announces FY 85 Training and Development Services**

United States. Office of Personnel Management,1984      **ADP Training Catalog** ,1983      **FY ... Guide to Training Courses** ,1988      **An Introduction to the IBM System/360 Computer** Gordon Bitter Davis,1965      **Introduction to Computer Science** ITL Education Solutions Limited,2011 Discusses most ideas behind a computer in a simple and straightforward manner The book is also useful to computer enthusiasts who wish to gain fundamental knowledge of computers      *Introduction to Computer Application (as per NEP-UP, for B.Com, Sem I)* Ashok Arora,      *An Introduction to Software Quality Control* Chin-Kuei Cho,1980 Part 1 Fundamental concepts in statistics and quality control baPart 1 Fundamental concepts in statistics and quality control Basic concepts in probability Important statistical distributions for software quality control Random number generation Sampling techniques and statistical inference Acceptance sampling Part 2 Requirements specification Software design and test design Structured programming Structured module interfacing for software systems Software testing validation verification and debugging Software system acceptance FORTRAN compiler acceptance COBOL compiler acceptance Part 3 Software testing validation verification and debugging Software system acceptance FORTRAN compiler acceptance COBOL compiler acceptance      **Training and Development Services** United States. Office of Personnel Management,1984      *Guide to the Evaluation of Educational Experiences in the Armed Services* American Council on Education,1978      Catalog of Nonresident Training Courses United States. Naval Education and Training Command,1993      *Introducing Cobol* Christine Benedyk Kay,Barbara Harris,1999      **History of Nordic Computing 2** John Impagliazzo,Timo Järvi,Petri Paju,2009-09-19 The First Conference on the History of Nordic Computing HiNC1 was organized in Trondheim in June 2003 The HiNC1 event focused on the early years of computing that is the years from the 1940s through the 1960s although it formally extended to year 1985 In the preface of the proceedings of HiNC1 Janis Bubenko Jr John Impagliazzo and Arne S Iyberg describe well the peculiarities of early Nordic computing 1 While developing hardware was a necessity for the first professionals quite soon the computer became an industrial product Computer scientists among others grew increasingly interested in programming and application software Progress in these areas from the 1960s to the 1980s was experienced as astonishing The developments during these decades were taken as the focus of HiNC2 During those decades computers arrived to every branch of large and medium sized businesses and the users of the computer systems were no longer only computer specialists but also people with other main duties Compared to the early years of computing before 1960 where the number of computer projects and applications was small capturing a holistic view of the history between the 1960s and the 1980s is considerably more difficult The HiNC2 conference attempted to help in this endeavor      *Staff Study of Computer Security in Federal Programs* United States. Congress. Senate. Committee on Government Operations,1977

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