

Buffalo Bill Cody Legends Of The West Ebook

buffalo bill cody legends of the west have captivated audiences for more than a century, embodying the rugged spirit, daring adventures, and larger-than-life persona of the American frontier. As an iconic figure of the Wild West, Buffalo Bill remains a symbol of adventure, entertainment, and the complex history of the American West. This article explores his remarkable life, his legendary contributions, and his enduring legacy that continues to influence popular culture today.

Early Life and Background of Buffalo Bill Cody

Birth and Childhood

William Frederick Cody, famously known as Buffalo Bill, was born on February 26, 1846, in Le Claire, Iowa (now part of Iowa). Raised in a modest setting, Cody developed an early fascination with the frontier life, which shaped his future endeavors. His family moved to Nebraska when he was young, immersing him further into the frontier environment.

Early Adventures and Skills

Cody's early years were marked by a series of daring exploits:

- At age 11, he began working as a rider for the Pony Express, delivering mail across treacherous terrains.
- He became proficient in horsemanship, hunting, and marksmanship, skills that would define his career.
- During the Civil War, he worked as a scout and rider, gaining firsthand experience of the frontier's challenges.

The Rise to Legend: Buffalo Bill's Wild West Show

Founding the Wild West Show

In 1883, Buffalo Bill founded his legendary show, "Buffalo Bill's Wild West," a traveling entertainment spectacular that showcased frontier life, Native American culture, and cowboy skills. The show was innovative, combining reenactments of historical events with performances that enthralled audiences worldwide.

Innovative Entertainment and Cultural Impact

Buffalo Bill's Wild West was more than a circus; it was a cultural phenomenon that:

- Bridged the gap between reality and entertainment by dramatizing frontier life.
- Featured renowned figures such as Sitting Bull, Annie Oakley, and other legendary performers.
- Introduced audiences to Native American traditions, though often romanticized or stereotyped.

The show toured extensively across the United States and internationally, including Europe, helping to shape perceptions of the American West globally.

Legendary Figures and Performers Associated with Buffalo Bill

Sitting Bull and Native American Representation

One of the most notable aspects of Buffalo Bill's Wild West was the participation of Native American leaders, most famously Sitting Bull. Their involvement:

- Provided authenticity to the performances.

Other Prominent Performers

The show also featured:

- Annie Oakley ? a sharpshooter whose incredible marksmanship became a highlight.
- Chief Joseph ? who participated in the show, showcasing Native American culture.
- Wild Bill Hickok ? whose legends as a gunslinger contributed to the mythos of the West.

The Legacy of Buffalo Bill and the Legend of the West

Mythologizing the American Frontier

Buffalo Bill played a significant role in shaping the myth of the American West. His show romanticized:

- The cowboy lifestyle
- The heroism of frontiersmen and Native Americans

- The rugged, adventurous spirit of the Wild West

This mythologizing influenced countless books, movies, and cultural representations, cementing the Western hero archetype.

Historical Significance and Criticism

While celebrated, Buffalo Bill's portrayal of frontier life has faced criticism:

- Romanticized Native American culture often perpetuated stereotypes.
- The show glossed over the violence, displacement, and conflicts faced by Native peoples.
- Modern interpretations analyze his role within the broader context of American history and cultural storytelling.

Buffalo Bill's Impact on American Culture

Influence on Entertainment and Popular Culture

Buffalo Bill's Wild West show set the stage for future entertainment forms:

- Influenced the development of rodeo and Western-themed performances.
- Inspired countless movies, books, and television series about the American West.
- Helped establish the cowboy and frontier hero as enduring cultural icons.

Legacy in History and Education

Today, Buffalo Bill is remembered as:

- An emblem of frontier bravery and adventure.
- A complex figure whose life encapsulates the myths and realities of the Wild West.
- Someone whose storytelling continues to influence American identity and cultural memory.

Visiting Buffalo Bill's Heritage Sites

Buffalo Bill Center of the West

Located in Cody, Wyoming, the Buffalo Bill Center of the West is a comprehensive museum dedicated to his life and the broader history of the American West. It features exhibits on:

- Buffalo Bill's personal artifacts
- Wild West performances
- Native American culture and frontier history

Buffalo Bill's Grave

Buffalo Bill is buried in the Cody Cemetery in Wyoming. His grave site is a popular tourist destination, offering insights into his life and enduring legacy.

Conclusion: The Enduring Legend of Buffalo Bill

Buffalo Bill Cody's contributions to shaping the mythos of the American West are undeniable. His adventurous spirit, pioneering entertainment, and complex portrayal of frontier life have left an indelible mark on American history and popular culture. While modern perspectives encourage a nuanced understanding of his legacy, the legend of Buffalo Bill remains a testament to the enduring allure of the Wild West. Through museums, performances, and stories, his legend continues to inspire fascination with the rugged, daring spirit of the American frontier.

Keywords: Buffalo Bill Cody, legends of the West, Wild West show, American frontier, Native American culture, Western legend, cowboy history, Buffalo Bill Center of the West, Wild West performances, Western mythology

Buffalo Bill Cody: Legends of the West

The name Buffalo Bill Cody resonates across the pages of American history as one of the most iconic figures shaping the mythos of the American West. His life story, blending frontier adventure with entertainment, has become a cornerstone of Western legend. As a legendary scout, buffalo hunter, soldier, and showman, Cody's influence extends beyond his lifetime, shaping perceptions of the Wild West for generations. This article delves into the multifaceted life of Buffalo Bill Cody, exploring his early years, extraordinary exploits, and lasting legacy as a symbol of the American frontier.

Early Life and Origins

Childhood and Background

William Frederick Cody was born on February 26, 1846, in Scott County, Iowa, to Isaac Cody and Mary Ann Bonsell Laycock. His family moved frequently during his childhood, settling in Kansas Territory when he was a young boy. Growing up amidst the tumult of American expansion, Cody was exposed early to the rugged realities of frontier life.

Early Adventures and Self-Reliance

By the age of 11, Cody had already begun earning his livelihood, working as a courier and delivering newspapers. His early ventures demonstrated a remarkable resilience and adaptability, traits that would define his later exploits. At the age of 14, he became a rider for the Pony Express, a perilous job that involved delivering mail across hostile territories – an experience that cemented his reputation as a fearless and resourceful young man.

Buffalo Bill's Role in the Wild West

The Hunter and Scout

Buffalo Bill earned his nickname during the 1860s, when he reportedly killed over 4,000 buffalo to supply the railroad workers and settlers. His skill with firearms and marksmanship became legendary, and he was recognized as one of the finest buffalo hunters of his era.

His role as a scout for the U.S. Army further elevated his standing. Cody served as a scout during the Indian Wars, notably participating in campaigns against Plains tribes such as the Sioux and Cheyenne. His reconnaissance work was instrumental in military campaigns, and his knowledge of the terrain and Native American cultures was extensive.

The Myth of the Frontier Hero

Cody's exploits became the stuff of legend, often exaggerated in retellings. He was depicted as a quintessential Western hero, embodying qualities of bravery, resilience, and frontier justice. His tales of daring deeds spread through newspapers and oral tradition, contributing to the romanticized image of the American West.

The Creation of the Wild West Show

From Real Feats to Spectacle

In 1883, Buffalo Bill launched his most enduring legacy: the Buffalo Bill's Wild West show. Originally conceived as a touring performance to showcase frontier skills and entertain audiences, it quickly grew into a massive spectacle that toured across the United States, Europe, and beyond.

Elements of the Show

The Wild West show combined real frontier acts with theatrical reenactments, including:

- Horseback riding stunts and trick roping
- Reenactments of famous battles and conflicts
- Displays of Native American culture and customs
- Animal acts featuring trained horses and dogs
- Recreations of frontier life and hunting scenes

This innovative entertainment blurred the lines between reality and myth, offering audiences a sanitized, romanticized version of the West.

Impact and Legacy

The show was a commercial success and a cultural phenomenon. It introduced millions worldwide to the imagery and stories of the frontier, shaping perceptions of American history. Prominent figures, including Sitting Bull and Annie Oakley, participated in the shows, further adding to their authenticity and appeal.

Controversies and Criticisms

Ethnic Representation and Cultural Appropriation

While the Wild West show popularized frontier culture, it was also criticized for its stereotypical portrayals of Native Americans and other groups. Native performers often played roles that reinforced negative stereotypes, and the show's depiction of Indigenous peoples was romanticized and inaccurate.

Ethical Questions Surrounding Buffalo Hunting

Cody's buffalo hunting exploits, which helped eliminate millions of bison from the plains, have sparked ethical debates. Critics argue that such mass hunting contributed to the near-extinction of the species and devastated Native American livelihoods, as bison were central to their culture and sustenance.

Personal Life and Later Years

Family and Personal Relationships

Buffalo Bill was married to Louisa Frederici, with whom he had four children. His personal life was marked by periods of health issues and financial ups and downs, but his reputation as a Western icon remained steadfast.

Philanthropy and Cultural Contributions

In his later years, Cody focused on philanthropy and promoting Western heritage. He became involved in efforts to preserve frontier history and supported various charitable causes.

Death and Posthumous Recognition

Buffalo Bill Cody died on January 10, 1917, at the age of 70. His funeral was a grand affair, attended by thousands, and his legacy endured through museums, films, and popular culture.

The Enduring Legacy of Buffalo Bill Cody

A Symbol of the American West

Buffalo Bill's life and show epitomized the frontier spirit—courageous, adventurous, and resilient. His contributions helped craft the myth of the Wild West that continues to influence American identity and culture.

Influence on Popular Culture

From dime novels to Hollywood Westerns, Buffalo Bill's persona has been immortalized in countless stories. The Wild West show set the template for modern Western entertainment, inspiring movies, television series, and theme parks.

Preservation of Western Heritage

Today, Buffalo Bill's legacy lives on through museums, reenactments, and cultural festivals. His life story remains a testament to the complex history of American expansion, frontier life, and the creation of national myths.

Conclusion

Buffalo Bill Cody's life was a tapestry woven with daring exploits, entertainment innovation, and cultural influence. While some aspects of his legacy are viewed critically, his role in shaping the image of the American West is undeniable. As a legendary figure, Buffalo Bill remains a symbol of adventure, exploration, and the enduring allure of the frontier myth—a legend that continues to captivate audiences around the world.

Question Who was Buffalo Bill Cody and what is his significance in the legends of the West? Buffalo Bill Cody was a legendary American frontiersman, buffalo hunter, and showman known for shaping the popular image of the Wild West. His Wild West shows showcased frontier life and contributed to the mythos of the American West. What were the main themes of Buffalo Bill Cody's Wild West shows? The shows highlighted themes of frontier adventure, Native American

culture, cowboy skills, and heroic deeds, aiming to entertain audiences while romanticizing the history of the West. How did Buffalo Bill Cody influence the Western genre in popular culture? Through his Wild West shows, Buffalo Bill popularized Western myths, inspired countless books, movies, and TV shows, and helped establish iconic Western imagery and characters that persist today. What are some notable legends or myths associated with Buffalo Bill Cody? Legends include his legendary sharpshooting skills, his role as a hero who fought in the Indian Wars, and stories of his daring exploits as a frontier scout and buffalo hunter, many of which contributed to his larger-than-life persona. How did Buffalo Bill Cody contribute to the preservation or distortion of Western history? While he popularized Western stories and preserved aspects of frontier life through entertainment, some critics argue that his portrayals romanticized and sometimes distorted the complex realities of Western history and Native American cultures. What is the legacy of Buffalo Bill Cody in modern Western culture? Buffalo Bill's legacy endures through his influence on Western entertainment, his role in shaping American perceptions of the West, and his Wild West shows, which laid the groundwork for modern rodeos, Western museums, and cultural festivals celebrating frontier history.

Related keywords: Buffalo Bill Cody, Wild West Show, American frontier, Western legends, cowboy stories, American West history, rodeo entertainment, frontier legends, Buffalo Bill Museum, Western folklore

SAS WORKBOOK RON CODY

SAS Workbook Ron Cody

The SAS Workbook by Ron Cody is a comprehensive resource designed for students, data analysts, statisticians, and professionals seeking to strengthen their understanding of SAS programming and data analysis techniques. Renowned for his clear teaching style and practical approach, Ron Cody's workbooks serve as invaluable tools that bridge theoretical concepts with real-world applications. Whether you are a beginner aiming to grasp foundational SAS skills or an advanced user looking to refine your expertise, Cody's SAS Workbook provides structured exercises, detailed explanations, and practical examples to facilitate effective learning.

Overview of Ron Cody's SAS Workbook

Background and Author Profile

Ron Cody is a well-respected figure in the SAS community, known for his extensive experience in statistical programming and education. With numerous publications, workshops, and training

sessions under his belt, Cody has established himself as a leading authority in SAS programming education. His workbooks are particularly valued for their hands-on approach, which emphasizes learning by doing.

Purpose and Audience

The primary goal of Cody's SAS Workbook is to provide learners with practical exercises that reinforce their understanding of core SAS concepts, including data management, statistical analysis, and reporting. The workbook is suitable for:

- Students enrolled in SAS courses
- Data analysts seeking to enhance their skills
- Statisticians working on complex data projects
- Professionals preparing for SAS certification exams

Content Structure of the SAS Workbook

Core Topics Covered

Ron Cody's SAS Workbook systematically covers a broad spectrum of SAS programming topics, including:

- Data step processing
- Data manipulation and transformation
- PROC procedures (e.g., PROC SORT, PROC FREQ, PROC MEANS)
- Macro programming
- Advanced data analysis techniques
- Reporting and exporting results

Exercise-Based Learning Approach

The workbook is organized into chapters or sections, each containing:

- Clear explanations of concepts
- Step-by-step coding exercises
- Practice problems with solutions
- Case studies illustrating real-world applications

This structure promotes active learning, encouraging readers to apply concepts immediately, which enhances retention and understanding.

Advantages of Using Ron Cody's SAS Workbook

Hands-On Practice

One of the standout features of Cody's workbook is its emphasis on practical exercises. Instead of passively reading about SAS functions and procedures, learners actively engage with coding tasks that mirror real-world data analysis scenarios.

Clear and Concise Explanations

Ron Cody is known for his ability to simplify complex topics. The workbook's explanations are straightforward, making it accessible for beginners while still offering depth for advanced users.

Progressive Difficulty

The exercises are designed to gradually increase in complexity, allowing learners to build confidence and mastery step-by-step. This scaffolding approach ensures that foundational skills are solidified before moving on to more challenging topics.

Supplementary Resources

Many editions of the workbook come with additional resources, such as:

- Sample datasets
- Answer keys
- Online tutorials
- Practice exams for certification preparation

Key Features and Highlights of the SAS Workbook by Ron Cody

Structured Learning Modules

Each chapter targets a specific aspect of SAS programming, beginning with introductory material and advancing toward complex applications. For example:

- Introduction to SAS environment

- Data input and output
- Data cleaning and validation
- Statistical procedures and analysis
- Macro programming and automation

Real-World Data Sets

The workbook includes authentic datasets that simulate typical data analysis tasks. Working with real data enhances practical skills and prepares users for professional projects.

Focus on Best Practices

Cody emphasizes writing efficient, readable, and maintainable SAS code. Tips on coding standards and debugging are integrated into exercises.

Preparation for Certifications

Many learners utilize Cody's workbook as part of their study plan for SAS certifications such as Base Programming or Advanced Analytics. The exercises align with exam topics, providing focused practice.

How to Maximize Learning from Ron Cody's SAS Workbook

Consistent Practice

Regularly working through exercises solidifies skills and builds confidence. It's advisable to set aside dedicated study sessions and review completed exercises to reinforce learning.

Utilize Additional Resources

Complement the workbook with online tutorials, SAS documentation, and forums to deepen understanding and resolve doubts.

Apply Concepts to Real Projects

Try to implement learned techniques on actual datasets or personal projects. This practical application bridges the gap between theory and practice.

Seek Feedback and Collaboration

Engaging with peers, instructors, or online communities can provide valuable feedback and insights,

enhancing the learning experience.

Conclusion

Ron Cody's SAS Workbook stands out as a vital educational resource that effectively combines theory with practice. Its well-structured exercises, clear explanations, and real-world datasets make it suitable for a broad range of learners—from beginners to seasoned professionals. By emphasizing hands-on learning, Cody's workbook not only helps users acquire SAS programming skills but also prepares them for certification and professional excellence. For anyone committed to mastering SAS, investing time in Ron Cody's workbook is a strategic step toward proficiency and career advancement in data analysis and statistical programming.

Additional Tips for Using the SAS Workbook Effectively

Set Clear Learning Goals

Define what you aim to achieve with each chapter or section. Whether it's mastering data manipulation or understanding macro programming, targeted goals help maintain motivation.

Take Notes and Summarize

Keep a journal of key concepts, coding tips, and common pitfalls. Summarizing information aids retention and serves as a quick reference.

Practice Beyond the Workbook

Attempt to solve additional problems or analyze different datasets to deepen your understanding.

Stay Updated with SAS Developments

Since SAS software evolves, staying current with the latest features and syntax ensures your skills remain relevant.

In summary, the SAS Workbook by Ron Cody is a detailed, practical, and user-friendly resource that equips learners with the essential skills needed for effective SAS programming and data analysis. Its structured approach, real-world datasets, and emphasis on practice make it an invaluable tool for building confidence and competence in SAS. Whether you are preparing for certification, enhancing your professional skills, or simply exploring data analysis, Cody's workbook provides the guidance and exercises necessary to succeed.

SAS Workbook Ron Cody: An In-Depth Examination of Its Content, Utility, and Impact

In the realm of data analysis and statistical computing, SAS (Statistical Analysis System) has cemented itself as a dominant platform for professionals and researchers alike. Among the myriad resources available to learners and practitioners, the SAS Workbook Ron Cody stands out as a prominent educational tool. This comprehensive review aims to dissect the workbook's content, pedagogical approach, practical utility, and its role in enhancing SAS proficiency.

Introduction to the SAS Workbook Ron Cody

Ron Cody, a renowned SAS expert, author, and educator, has contributed significantly to the community through a series of educational materials. The SAS Workbook Ron Cody is designed to serve as an interactive, hands-on guide that bridges theoretical knowledge with practical application. Its primary goal is to facilitate mastery over SAS programming, data manipulation, and statistical procedures through structured exercises.

The workbook is often lauded for its clarity, real-world relevance, and comprehensive coverage of essential SAS topics. It caters to a broad audience, from beginners seeking foundational skills to experienced analysts aiming to refine their techniques.

Content Overview and Structure

Core Topics Covered

The SAS Workbook Ron Cody systematically addresses critical areas of SAS programming and data analysis, including:

- Data Step Processing: Reading, transforming, and managing datasets.
- PROC Procedures: Utilization of procedures such as PROC MEANS, PROC FREQ, PROC REG, PROC SQL, and more.
- Data Cleaning and Preparation: Handling missing data, data validation, and quality assurance.
- Macro Programming: Automating repetitive tasks through macro development.
- Advanced Techniques: Arrays, hash objects, and efficient data processing methods.
- Visualization and Reporting: Generating informative graphs and reports within SAS.

This organized approach ensures learners develop a holistic understanding of SAS, from basic syntax to complex data workflows.

Exercise-Based Learning Approach

One of the defining features of the workbook is its emphasis on practice. Each chapter includes:

- Step-by-step exercises
- Realistic datasets mimicking industry scenarios
- Challenge problems to test comprehension
- Coding tips and best practices annotations

This structure encourages active learning, allowing users to apply concepts immediately and reinforce retention.

Supplementary Material

Beyond exercises, the workbook provides:

- Sample code snippets
- Explanatory notes on SAS syntax
- Troubleshooting advice
- References to official SAS documentation for further study

This comprehensive package aims to be both a teaching resource and a quick-reference guide.

Pedagogical Effectiveness and Teaching Methodology

Clarity and Accessibility

Ron Cody's writing style is widely praised for its clarity. The exercises are designed to be approachable for beginners, with gradual difficulty progression. The workbook avoids jargon overload, making complex concepts digestible through straightforward language and illustrative examples.

Hands-On Learning Benefits

Research in educational psychology underscores the importance of active engagement. The workbook's exercise-centric format aligns with this principle, fostering experiential learning. Users not only read about SAS techniques but also implement them directly, leading to better skill acquisition.

Alignment with Industry Needs

The content emphasizes practical skills relevant to real-world data analysis tasks. This focus ensures that learners can translate their knowledge into workplace competence, a critical factor for career development.

Practical Utility and Application

Target Audience

The workbook is suitable for:

- Undergraduate and graduate students in statistics, data science, or related fields
- Entry-level SAS programmers
- Data analysts seeking to reinforce their skills
- Professionals preparing for SAS certifications

Advantages of Using the Workbook

- Self-paced Learning: Flexibility to study independently
- Structured Progression: Clear pathway from basics to advanced topics
- Realistic Datasets: Practice with data resembling actual business scenarios
- Reinforcement of Syntax and Logic: Multiple exercises consolidating understanding
- Preparation for Certification: Practice problems aligned with exam content

Limitations and Considerations

While highly valuable, the workbook may present challenges such as:

- Limited coverage of the latest SAS features introduced after its publication
- Less focus on programming paradigms outside traditional SAS procedures
- Potential need for supplementary resources for advanced topics like SAS Viya or machine learning integrations

Impact on Learning and Professional Development

Educational Value

The SAS Workbook Ron Cody has been instrumental in democratizing SAS education. Its practical exercises cultivate confidence and competence, enabling learners to transition smoothly from novice to proficient user.

Community and Peer Learning

Many users share their experiences and solutions on forums, citing the workbook as a foundational resource. Its structured approach facilitates collaborative learning and peer support.

Certification and Career Advancement

Proficiency gained through the workbook can bolster candidates' readiness for SAS certifications such as Base SAS Programmer or Advanced Programmer exams. Employers value hands-on skills, making this resource a strategic investment for career growth.

Comparison with Other Resources

While numerous SAS learning materials exist—including online courses, tutorials, and official documentation—the SAS Workbook Ron Cody offers distinct advantages:

- **Interactive and Exercise-Driven:** Unlike passive learning formats, it emphasizes active code writing.
- **Authored by a Recognized Expert:** Ron Cody's reputation lends credibility and depth.
- **Cost-Effectiveness:** Often more affordable than comprehensive courses.
- **Self-Contained:** Contains all necessary explanations, reducing dependence on external resources.

However, potential users should consider supplementing the workbook with online tutorials or newer publications to stay abreast of evolving SAS features.

Conclusion: Assessing the Value of SAS Workbook Ron Cody

The SAS Workbook Ron Cody remains a cornerstone educational resource for individuals seeking to develop robust SAS programming skills. Its well-structured, exercise-rich format fosters active learning, bridging theoretical concepts with practical application. The clarity of instructions, real-world datasets, and comprehensive coverage make it particularly valuable for beginners and intermediate users.

While it may have limitations regarding the latest SAS developments, its pedagogical strengths and focus on core skills ensure lasting relevance. For anyone committed to mastering SAS, Ron Cody's workbook serves as both an effective learning tool and a reference manual, contributing significantly to professional competence and confidence in data analysis.

Final Recommendation: For learners aiming to build a solid foundation in SAS programming with practical exercises, the SAS Workbook Ron Cody is highly recommended. Its integration into a broader learning strategy—complemented by official documentation and advanced resources—can

facilitate a comprehensive mastery of SAS.

Disclaimer: This review reflects an objective analysis based on available information about the SAS Workbook Ron Cody. Readers should consider their individual learning preferences and requirements when choosing educational resources.

Question What is the purpose of the SAS Workbook by Ron Cody? The SAS Workbook by Ron Cody serves as a comprehensive guide to help learners and professionals develop practical skills in SAS programming through step-by-step exercises and real-world examples. Which topics are covered in the latest edition of Ron Cody's SAS Workbook? The latest edition covers topics such as data manipulation, PROC steps, macro programming, data visualization, and advanced statistical procedures using SAS. Is Ron Cody's SAS Workbook suitable for beginners? Yes, the workbook is designed to be accessible for beginners, providing clear explanations and exercises to build foundational SAS programming skills. Can I use Ron Cody's SAS Workbook for self-study or classroom learning? Absolutely, the workbook is suitable for self-study, classroom instruction, and as a supplemental resource for SAS courses. Are there online resources or companion materials available for Ron Cody's SAS Workbook? Yes, there are online resources, including datasets, answer keys, and additional exercises that complement the workbook's content, available through publisher websites and SAS community forums. How does Ron Cody's SAS Workbook help prepare for SAS certification exams? The workbook offers practical exercises and key concepts aligned with SAS certification objectives, aiding learners in gaining confidence and exam readiness. What makes Ron Cody's SAS Workbook a popular choice among SAS users? Its clear instructional style, practical approach, comprehensive coverage of topics, and real-world examples make it a preferred resource for learners and professionals alike.

Related keywords: SAS workbook, Ron Cody, SAS programming, data analysis, statistical analysis, SAS tutorials, SAS examples, SAS exercises, SAS certification, data manipulation

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