

Statistics for management 7th edition PDF

Statistics for Management 7th Edition is a comprehensive textbook widely used by students and professionals to develop a solid understanding of statistical concepts applied within business and management contexts. This edition emphasizes practical applications, real-world examples, and the integration of statistical techniques to facilitate better decision-making in managerial roles. Whether you're a student preparing for exams or a practitioner seeking to strengthen your analytical skills, this textbook offers valuable insights into the effective use of statistics in management.

Overview of Statistics for Management 7th Edition

Author and Publication Details

- Written by Richard I. Levin and David S. Rubin, renowned authors in the field of business statistics.
- Published by Pearson Education, ensuring accessibility and widespread distribution.
- The 7th edition continues to build on previous editions by incorporating contemporary examples and updated content.

Core Focus and Objectives

- To introduce fundamental statistical concepts relevant to management.
- To demonstrate how statistical tools can solve real-world business problems.
- To foster data-driven decision-making skills among students and professionals.
- To provide step-by-step procedures for statistical analysis.

Target Audience

- Undergraduate students in business, management, economics, and related fields.
- MBA students seeking practical statistical skills.
- Business analysts and managers involved in decision-making processes.

Key Topics Covered in Statistics for Management 7th Edition

Introduction to Statistics

- Definition and importance of statistics in management
- Types of data: qualitative vs. quantitative
- Levels of measurement: nominal, ordinal, interval, ratio

Descriptive Statistics

- Measures of central tendency: mean, median, mode
- Measures of dispersion: range, variance, standard deviation, interquartile range
- Data visualization: histograms, bar charts, pie charts, box plots

Probability Concepts

- Basics of probability: events, outcomes, and probability rules
- Conditional probability and independence
- Probability distributions: binomial, normal, Poisson

Inferential Statistics

- Sampling methods and sampling distributions
- Estimation: point and interval estimates
- Hypothesis testing: t-tests, chi-square tests, ANOVA

Regression and Correlation

- Simple linear regression analysis
- Multiple regression techniques
- Correlation coefficients and interpretation

Decision Making and Quality Control

- Decision analysis fundamentals
- Control charts and process monitoring
- Six Sigma tools and techniques

Features and Pedagogical Tools of the 7th Edition

Real-World Examples

- Incorporation of contemporary business scenarios to illustrate statistical concepts.
- Case studies from industries such as manufacturing, finance, and marketing.

Step-by-Step Procedures

- Detailed instructions for conducting statistical analyses.
- Emphasis on understanding the rationale behind each step.

Practice Problems and Exercises

- End-of-chapter questions ranging from basic to advanced.
- Data sets for hands-on practice.

Use of Technology

- Guidance on using statistical software such as Excel, Minitab, and SPSS.
- Integration of computer-based analysis to enhance learning.

Importance of Statistics for Management in Business

Data-Driven Decision Making

- Enables managers to make informed choices based on empirical data.
- Reduces reliance on intuition and guesswork.

Risk Analysis and Management

- Helps quantify uncertainties and assess risks.
- Facilitates the development of strategies to mitigate potential issues.

Quality Improvement

- Supports continuous improvement initiatives like Six Sigma.
- Uses statistical process control tools to monitor and enhance quality.

Forecasting and Planning

- Utilizes time series analysis and regression models.
- Assists in budgeting, inventory management, and resource allocation.

How to Effectively Use Statistics for Management 7th Edition

Study Strategies

- Read chapters thoroughly, paying attention to definitions and examples.
- Practice all end-of-chapter problems to reinforce understanding.
- Use statistical software to perform analyses, gaining practical skills.
- Review case studies to understand application in real-world scenarios.

Supplementary Resources

- Online tutorials and videos related to statistical techniques.
- Instructor-led workshops or study groups.
- Additional practice datasets for independent analysis.

Common Challenges and Tips

- Understanding complex probability distributions ? start with simple concepts and gradually progress.
- Interpreting statistical output ? focus on context and practical significance.
- Balancing theoretical knowledge with application skills ? prioritize hands-on practice.

Conclusion

Statistics for Management 7th Edition remains an invaluable resource for mastering the essential statistical tools necessary for effective management and decision-making. Its structured approach, practical examples, and emphasis on technology integration make it suitable for learners seeking both theoretical knowledge and practical application. By engaging deeply with this textbook, students and professionals can enhance their analytical capabilities, making data-driven decisions

that positively impact organizational success.

Additional Resources and References

- Levin, R. I., & Rubin, D. S. (2017). Statistics for Management (7th Edition). Pearson Education.
- Supplementary online platforms offering tutorials and practice exercises.
- Academic journals and case studies for advanced learning.

For further guidance on specific chapters or concepts within Statistics for Management 7th Edition, consider consulting instructor resources, study guides, or engaging with online educational communities dedicated to business statistics.

Statistics for Management 7th Edition: Navigating Data-Driven Decision Making in Business

In an era where data reigns supreme, understanding how to interpret and leverage statistical tools is essential for effective management. **Statistics for Management 7th Edition** stands as a comprehensive guide tailored to equip students and professionals alike with the skills necessary to make informed decisions in complex business environments. This edition, authored by Richard I. Levin and David S. Rubin, marries theoretical foundations with practical applications, ensuring readers can translate statistical concepts into actionable insights. As organizations increasingly rely on robust data analysis to guide strategies, mastering the content of this textbook becomes not just beneficial but imperative.

Understanding the Foundations of Statistics in Management

Before delving into advanced techniques, it's vital to grasp the core principles that underpin statistical analysis in management contexts. The 7th edition emphasizes a balanced approach, blending theoretical rigor with real-world relevance.

The Role of Statistics in Business Decision-Making

Statistics serve as the backbone of informed decision-making across various managerial functions, including marketing, finance, operations, and human resources. By systematically collecting, analyzing, and interpreting data, managers can:

- Identify trends and patterns
- Forecast future outcomes
- Evaluate the effectiveness of strategies
- Minimize risks and uncertainties

For example, a marketing manager might analyze customer purchase data to determine the most profitable segments, while a supply chain manager could forecast demand fluctuations to optimize inventory levels.

Key Concepts Covered in the Textbook

The textbook covers a broad spectrum of statistical topics categorized into descriptive and inferential statistics:

- Descriptive Statistics: Summarizing data through measures such as mean, median, mode, range, variance, and standard deviation.
- Probability: Understanding the likelihood of events, including probability distributions like binomial and normal distributions.
- Sampling and Estimation: Techniques for selecting representative data samples and estimating population parameters.
- Hypothesis Testing: Making decisions about data hypotheses through tests like t-tests, chi-square tests, and ANOVA.
- Regression and Correlation: Analyzing relationships between variables to predict outcomes.

The integration of these concepts facilitates a comprehensive understanding of how data analysis supports managerial decisions.

Practical Applications of Statistical Methods in Management

The strength of **Statistics for Management 7th Edition** lies in its focus on practical applications. It provides numerous case studies, examples, and exercises that demonstrate how statistical tools can be employed to solve real business problems.

Case Studies and Real-World Examples

Each chapter incorporates case studies drawn from industries such as finance, healthcare, manufacturing, and retail. For instance, a chapter on regression analysis might feature a case where a retail chain predicts sales based on advertising spend, helping managers allocate budgets more effectively.

Decision-Making Tools and Techniques

The textbook emphasizes a step-by-step approach to problem-solving:

- Define the problem clearly.
- Collect relevant data systematically.
- Analyze the data using appropriate statistical methods.
- Interpret results in the context of the business problem.
- Make informed decisions based on the analysis.

This framework ensures that managers do not just perform calculations but also derive meaningful insights to guide strategies.

Statistical Software and Technology

Recognizing the importance of technology, the book discusses how to utilize statistical software such as Excel, Minitab, and SPSS. Familiarity with these tools enhances efficiency and accuracy, enabling managers to handle large datasets and complex analyses with ease.

Key Topics and Their Significance in Management

A detailed understanding of the core topics in the textbook equips managers with the skills to interpret data effectively.

Descriptive Statistics: Summarizing Data

Descriptive statistics form the first step in any analysis. They help managers understand the basic features of data, such as the central tendency and variability. For example:

- Mean: The average sales figure, providing a quick snapshot.
- Median: The middle value, useful when data contains outliers.
- Standard Deviation: The spread of data points, indicating consistency or volatility.

Probability and Distributions: Quantifying Uncertainty

Understanding probability enables managers to assess risks and make predictions. Key distributions covered include:

- Normal Distribution: The bell curve, common in natural and business phenomena.
- Binomial Distribution: Success/failure scenarios, such as product defect rates.
- Poisson Distribution: Rare events over a fixed interval, like customer arrivals.

Sampling and Estimation: Making Inferences

Since analyzing entire populations is often impractical, sampling becomes essential. The textbook discusses:

- Designing representative samples
- Calculating confidence intervals
- Understanding margin of error

These tools allow managers to estimate parameters like average customer satisfaction with a known degree of confidence.

Hypothesis Testing: Validating Assumptions

Hypothesis testing helps determine whether observed effects are statistically significant. For example, testing whether a new advertising campaign has increased sales beyond random variation. Common tests include:

- t-tests for comparing means
- Chi-square tests for categorical data
- ANOVA for comparing multiple groups

Regression Analysis and Correlation: Exploring Relationships

Regression models enable managers to predict outcomes based on independent variables. For example, analyzing how advertising spend and price levels influence sales volume. Correlation measures the strength of the relationship between variables, guiding resource allocation.

Learning Through Practice: Exercises and Data Analysis

The textbook emphasizes active learning through numerous exercises, datasets, and problem-solving scenarios. This approach ensures that readers develop practical skills alongside theoretical knowledge.

Hands-On Data Analysis

Students are encouraged to:

- Use real datasets to perform statistical analyses
- Interpret output from statistical software

- Make data-driven recommendations

This experiential learning bridges the gap between classroom concepts and real-world applications.

Assessments and Case Problems

The inclusion of case problems simulates managerial challenges, requiring learners to:

- Identify relevant data
- Choose appropriate statistical tools
- Communicate findings effectively

This prepares readers for the complexities of decision-making in professional settings.

The Future of Statistics in Management

As data becomes more integral to business operations, the importance of statistical literacy continues to grow. The 7th edition of **Statistics for Management** positions readers at the forefront of this trend by:

- Introducing emerging topics like data mining and predictive analytics
- Highlighting the role of big data in strategic planning
- Discussing ethical considerations in data collection and analysis

By mastering these concepts, managers can harness data not just for reporting but for strategic innovation and competitive advantage.

Conclusion: Empowering Managers Through Data

In conclusion, **Statistics for Management 7th Edition** offers a robust foundation for understanding how statistical tools underpin effective management decisions. Its balanced approach, blending theory with practice, makes it an invaluable resource for students and professionals aiming to thrive in data-driven environments. As organizations continue to evolve amidst rapid technological advancements, the ability to analyze and interpret data will remain a critical skill. Embracing the principles outlined in this textbook equips managers to navigate uncertainties, identify opportunities, and lead with confidence grounded in solid statistical understanding.

Whether you're just beginning your journey into management or seeking to deepen your analytical expertise, this edition provides a clear, practical roadmap to harnessing the power of statistics for

strategic success.

Question What are the key updates in the 7th edition of 'Statistics for Management' compared to previous editions? The 7th edition introduces enhanced coverage of data analytics tools, updated real-world case studies, expanded chapters on predictive modeling, and improved integration of Excel-based applications to better align with current management practices. **Answer** How does 'Statistics for Management 7th edition' address the use of statistical software? The book provides comprehensive guidance on using popular statistical software such as Excel, Minitab, and SPSS, including step-by-step instructions and practical examples to help students perform statistical analysis efficiently. What are the main topics covered in 'Statistics for Management 7th edition'? The book covers descriptive statistics, probability distributions, sampling and estimation, hypothesis testing, regression analysis, correlation, time series analysis, and decision-making under uncertainty, among other topics relevant to management decision processes. Is there a focus on real-world applications in 'Statistics for Management 7th edition'? Yes, the 7th edition emphasizes practical applications with numerous case studies, examples from various industries, and exercises designed to simulate real management scenarios to enhance understanding and applicability. How suitable is 'Statistics for Management 7th edition' for graduate students and professionals? The book is suitable for both graduate students and professionals seeking a comprehensive understanding of statistical methods applicable in management, offering advanced topics and practical insights tailored to higher education and industry needs. Does 'Statistics for Management 7th edition' include online resources or supplementary materials? Yes, the edition offers online resources such as solution manuals, data sets, and tutorial videos to support learning and facilitate better comprehension of statistical concepts and techniques.

Related keywords: statistics for management, management statistics, business statistics, managerial decision making, statistical analysis, quantitative methods, statistical techniques, data analysis, operations research, decision sciences

INTRODUCTORY STATISTICS KOKOSKA

Introductory Statistics Kokoska is a foundational course designed to introduce students and beginners to the essential concepts of statistics. Whether you're a student preparing for advanced studies, a professional seeking to enhance your data analysis skills, or simply someone interested in understanding how data shapes our world, learning the principles of introductory statistics Kokoska provides a vital stepping stone. This article will explore the core topics, methodologies, and practical applications of introductory statistics Kokoska, helping you grasp the fundamentals and see how they can be applied across various fields.

Understanding the Basics of Introductory Statistics Kokoska

Introductory statistics Kokoska covers the fundamental concepts necessary to analyze and interpret data effectively. This field combines theoretical knowledge with practical skills, enabling learners to make informed decisions based on data.

What is Statistics?

Statistics is the science of collecting, analyzing, interpreting, presenting, and organizing data. It helps in uncovering patterns, making predictions, and supporting decision-making processes.

Importance of Introductory Statistics Kokoska

- Provides foundational knowledge for advanced statistical methods
- Enhances critical thinking and data literacy skills
- Supports decision-making in fields like healthcare, business, social sciences, and more
- Prepares students for data-driven environments in the modern world

Core Topics Covered in Introductory Statistics Kokoska

The course typically includes a broad spectrum of topics, each building on the previous to give a comprehensive understanding of statistical analysis.

Descriptive Statistics

Descriptive statistics summarize and describe the main features of a dataset.

- Measures of Central Tendency: Mean, Median, Mode
- Measures of Variability: Range, Variance, Standard Deviation
- Data Visualization: Histograms, Bar Charts, Boxplots

Inferential Statistics

Inferential statistics allow us to make predictions or inferences about a larger population based on sample data.

- Sampling Methods and Sampling Distributions
- Confidence Intervals

- Hypothesis Testing: Null and Alternative Hypotheses
- p-values and Significance Levels

Probability Theory

Probability forms the basis for many statistical methods, helping quantify uncertainty.

- Basic Probability Rules
- Conditional Probability
- Probability Distributions: Binomial, Normal, Poisson

Regression and Correlation

These tools examine relationships between variables.

- Correlation Coefficient
- Simple Linear Regression
- Multiple Regression Analysis

Practical Applications of Introductory Statistics Kokoska

Applying statistical concepts to real-world problems is a vital aspect of the Kokoska course.

Business and Economics

Statistical analysis helps in market research, quality control, and financial forecasting.

Healthcare and Medicine

Epidemiological studies, clinical trials, and health data analysis rely heavily on statistics.

Social Sciences

Surveys, experiments, and observational studies utilize statistical tools to understand societal trends.

Environmental Studies

Analyzing climate data, pollution levels, and ecological surveys depend on sound statistical

methods.

Tools and Software Used in Introductory Statistics Kokoska

Modern statistics courses incorporate various software tools that facilitate data analysis.

Common Statistical Software

- Excel
- SPSS
- R Programming
- Python (with libraries like pandas, numpy, scipy)
- JMP

Choosing the Right Tool

Consider your specific needs, ease of use, and the complexity of analysis when selecting software.

Learning Strategies for Introductory Statistics Kokoska

Effective learning involves a combination of theoretical study and practical application.

Study Tips

- Practice with real datasets to understand concepts better
- Work on problem sets regularly
- Participate in discussions and study groups
- Use online resources and tutorials for additional support

Common Challenges and How to Overcome Them

- Understanding abstract concepts: Use visual aids and practical examples
- Grasping probability: Break down problems into smaller parts
- Mastering software tools: Follow step-by-step tutorials and practice frequently

Benefits of Mastering Introductory Statistics Kokoska

Acquiring a solid understanding of introductory statistics Kokoska offers numerous advantages.

Enhanced Data Literacy

Ability to read, interpret, and critically evaluate data presented in various formats.

Better Decision-Making Skills

Applying statistical reasoning to make informed choices in personal and professional contexts.

Preparation for Advanced Studies

A strong foundation in basic statistics is essential for success in higher-level courses and research projects.

Career Advancement

Many fields value employees with statistical skills, opening doors to diverse job opportunities.

Conclusion

Introductory statistics Kokoska serves as a crucial gateway to understanding the world through data. By mastering core concepts such as descriptive and inferential statistics, probability theory, and data analysis tools, learners can develop critical skills that are highly valued across numerous industries. Whether you're aiming to enhance your academic pursuits, improve your professional skill set, or simply satisfy your curiosity about how data influences decisions, investing in a solid understanding of introductory statistics Kokoska is a wise choice. Embrace the learning process, utilize practical tools, and apply your knowledge to real-world scenarios to unlock the full potential of statistical analysis.

Introductory Statistics Kokoska: A Comprehensive Guide to Building Your Foundations in Data Analysis

In the ever-evolving landscape of data-driven decision-making, understanding introductory statistics kokoska is essential for students, professionals, and anyone interested in deciphering the stories data can tell. Whether you're a beginner stepping into the world of statistics or someone looking to reinforce foundational concepts, this guide will walk you through the core ideas, methods, and applications associated with introductory statistics kokoska. By exploring key principles, common techniques, and practical examples, you'll be equipped to navigate the initial stages of statistical analysis confidently.

What Is Introductory Statistics Kokoska?

Before diving into details, it's important to clarify what introductory statistics kokoska entails. The phrase combines two components:

- **Introductory Statistics:** The branch of mathematics concerned with collecting, analyzing, interpreting, presenting, and organizing data. It lays the groundwork for understanding variability, relationships, and inference.
- **Kokoska:** A term that might be specific to a regional curriculum, a particular textbook, or a teaching method. For the purposes of this guide, we interpret kokoska as representative of foundational or beginner-level approaches to statistics, often emphasizing clarity, simplicity, and core concepts.

Together, introductory statistics kokoska signifies beginning-level statistical education, focusing on the essential tools and ideas that form the backbone of more advanced statistical analysis.

Why Is Introductory Statistics Kokoska Important?

Understanding the basics of statistics is crucial for several reasons:

- **Informed Decision-Making:** Many daily decisions, from health choices to financial planning, depend on interpreting data correctly.
- **Scientific Research:** Proper statistical methods underpin credible research findings across disciplines.
- **Data Literacy:** In a data-rich world, the ability to understand and communicate statistical information is a vital skill.
- **Foundation for Advanced Topics:** Mastering introductory concepts prepares learners for more complex statistical methods like regression, hypothesis testing, and machine learning.

Core Principles of Introductory Statistics Kokoska

- **Descriptive Statistics**

Descriptive statistics summarize and organize data to reveal underlying patterns or characteristics.

Key concepts include:

- **Measures of Central Tendency:**
- **Mean:** The average of a data set.

- Median: The middle value when data are ordered.
- Mode: The most frequently occurring value.

- Measures of Variability:
 - Range: Difference between the maximum and minimum.
 - Variance: Average squared deviation from the mean.
 - Standard Deviation: Square root of variance, indicating typical deviation.

- Data Visualization:
 - Histograms: Show data distribution.
 - Box Plots: Visualize spread and identify outliers.
 - Bar Charts: Compare categorical data.

- Probability Basics

Probability provides the foundation for inferential statistics.

Key ideas include:

- Understanding the likelihood of events.
- Calculating simple probabilities.
- Combining probabilities using rules like addition and multiplication.
- Concept of independent and dependent events.

- Inferential Statistics

While descriptive stats describe data, inferential statistics allow us to draw conclusions about larger populations.

Main topics:

- Sampling methods and importance.
- Estimation (point estimates and confidence intervals).
- Hypothesis testing basics.

Practical Steps in Introductory Statistics Kokoska

Step 1: Collect Data

- Define your question or problem.
- Choose an appropriate sampling method (random, stratified, cluster).
- Gather data ethically and accurately.

Step 2: Summarize Data

- Calculate measures of central tendency and variability.
- Visualize data with plots.
- Identify outliers or anomalies.

Step 3: Analyze Data

- Explore relationships between variables using scatter plots or cross-tabulations.
- Calculate correlation coefficients.
- Conduct basic hypothesis tests if applicable.

Step 4: Interpret Results

- Draw conclusions based on data summaries and analysis.
- Consider limitations and potential biases.
- Communicate findings clearly.

Common Techniques and Tools in Introductory Statistics Kokoska

Descriptive Methods

- Calculating means, medians, modes.
- Creating frequency distributions.
- Drawing histograms and box plots.

Probability Calculations

- Simple probability of single events.
- Compound probability for combined events.
- Use of probability trees and Venn diagrams.

Inferential Techniques

- Estimating population parameters with confidence intervals.
- Conducting t-tests for mean differences.
- Performing chi-square tests for categorical data.

Software and Resources

- Basic tools like Excel, Google Sheets.
- Introductory statistical software such as SPSS, R (for beginners).
- Educational resources, tutorials, and practice datasets.

Common Challenges in Introductory Statistics Kokoska and How to Overcome Them

- Misinterpreting Data

Solution: Focus on understanding what each statistic represents; avoid jumping to conclusions based solely on visualizations.

- Confusing Correlation and Causation

Solution: Remember that correlation indicates association, not causation. Consider study design and other factors.

- Overlooking Variability

Solution: Pay attention to measures like standard deviation and confidence intervals to understand data spread and uncertainty.

- Misapplying Statistical Tests

Solution: Learn the assumptions behind each test and verify whether data meet these conditions before application.

Tips for Success in Introductory Statistics Kokoska

- Practice Regularly: Work through exercises and real datasets.
- Visualize Data: Use plots to build intuition.
- Understand the Context: Always interpret statistics within the context of the data.
- Seek Clarification: Don't hesitate to ask instructors or peers when concepts are unclear.
- Utilize Resources: Use online tutorials, textbooks, and statistical software tutorials.

Conclusion

Mastering introductory statistics kokoska sets the stage for a deeper understanding of data analysis and interpretation. By grasping fundamental concepts like descriptive statistics, probability, and basic inference, learners develop critical thinking skills that empower them across academic, professional, and everyday contexts. Remember, the key to success lies in consistent practice, curiosity, and a willingness to question and explore data stories. As you progress in your statistical journey, these foundational principles will serve as reliable guides in navigating the complex and fascinating world of data.

Embark on your statistical adventure today by applying these principles to real-world data, and watch your confidence grow as you decode the stories hidden within numbers!

Question What is the primary focus of 'Introductory Statistics Kokoska'? 'Introductory Statistics Kokoska' is designed to introduce students to fundamental statistical concepts, methods, and data analysis techniques, providing a solid foundation for understanding and applying statistics. **Answer** Who is the author of 'Introductory Statistics Kokoska'? The book 'Introductory Statistics Kokoska' is authored by Robert Kokoska, a renowned statistician and educator known for his clear explanations and engaging teaching style. What topics are covered in 'Introductory Statistics Kokoska'? 'Introductory Statistics Kokoska' covers topics such as descriptive statistics, probability theory, inferential statistics, hypothesis testing, confidence intervals, regression analysis, and data visualization. Is 'Introductory Statistics Kokoska' suitable for beginners? Yes, the book is designed for beginners with little to no prior experience in statistics, offering accessible language and practical examples to facilitate learning. Does 'Introductory Statistics Kokoska' include real-world data examples? Absolutely, the book incorporates numerous real-world data examples to help students understand how statistical methods apply to everyday situations and various fields. Are there any online resources associated with 'Introductory Statistics Kokoska'? Many editions of 'Introductory Statistics Kokoska' come with supplementary online resources, including datasets, practice problems, and instructional videos to enhance learning. Is 'Introductory Statistics Kokoska' suitable

for online or hybrid courses? Yes, the book's clear explanations and accompanying resources make it well-suited for online, hybrid, and in-person introductory statistics courses. What pedagogical features does 'Introductory Statistics Kokoska' offer? The book features chapter summaries, review questions, practice exercises, and real data analysis projects to reinforce learning and assess understanding. Can 'Introductory Statistics Kokoska' be used as a textbook for college courses? Yes, it is widely used as a primary textbook for introductory college-level statistics courses due to its comprehensive coverage and student-friendly approach. Where can I purchase or access 'Introductory Statistics Kokoska'? 'Introductory Statistics Kokoska' is available through major book retailers, university bookstores, and online platforms such as Amazon, or through institutional access if provided by your educational institution.

Related keywords: introductory statistics, Kokoska, statistics textbook, basic statistics, descriptive statistics, probability theory, statistical analysis, data analysis, statistical methods, learning statistics

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