

2019 AP® STATISTICS FREE-RESPONSE QUESTIONS

STATISTICS

SECTION II

Part A

Questions 1-5

Spend about 1 hour and 5 minutes on this part of the exam.

Percent of Section II score—75

Directions: Show all your work. Indicate clearly the methods you use, because you will be scored on the correctness of your methods as well as on the accuracy and completeness of your results and explanations.

1. The sizes, in square feet, of the 20 rooms in a student residence hall at a certain university are summarized in the following histogram.



- (a) Based on the histogram, write a few sentences describing the distribution of room size in the residence hall.
 (b) Summary statistics for the sizes are given in the following table.

Mean	Standard Deviation	Min	Q1	Median	Q3	Max
231.4	68.12	134	174	253.5	292	315

- ① The spread is about $(350 - 100) = 250 \text{ ft}^2$.
 The distribution is roughly bimodal and approximately symmetric. The median is around 250. The min is around 100 and the max is around 350.
- ② $IQR = 292 - 134 = 118$
 No outliers
- Upper bound = $Q_3 + 1.5 \times IQR = 292 + 1.5 \times 118 = 467$
 Lower bound = $Q_1 - 1.5 \times IQR = 134 - 1.5 \times 118 = -3$

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L Reisser



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The Federal Research Portfolio United States. Congress. Senate. Committee on Commerce, Science, and Transportation, 2015 *Handbook Of Financial Econometrics, Statistics, Technology, And Risk Management (In 4 Volumes)* Cheng Few Lee, Alice C Lee, John C Lee, 2025-03-21 This handbook in 4 volumes investigates important tools for empirical and theoretical research in finance and accounting Based on editors and contributors years of experience working in the industry teaching classes conducting research writing textbooks and editing journals on the subject of financial econometrics mathematics statistics and technology this handbook will review discuss and integrate theoretical methodological and practical issues of financial econometrics mathematics statistics and machine learning Volume 1 lays the groundwork with key methodologies and innovative approaches From financial econometrics to the application of machine learning in risk management this volume covers critical topics such as optimal futures hedging and the impacts of CEO compensation on corporate innovation It also delves into advanced techniques in option bound determination the influence of economic institutions on banking stability and the latest in mortgage loan pricing predictions using ML RNN along with systemic risk assessment using bivariate copulas Volume 2 explores sophisticated financial theories and machine learning applications Readers will encounter stochastic volatility models and the complexities of implied variance in option pricing along with in depth discussions on real and exotic options and the diversification benefits of U S international equity funds This volume also highlights groundbreaking applications of machine learning for stock selection and credit risk assessment significantly enhancing decision making processes in the finance sector Volume 3 addresses critical issues in corporate finance and risk analysis with a strong focus on practical implications It covers the role of international transfer pricing corporate reorganization and executive share option plans Additionally it presents empirical studies on mutual fund performance and market model forecasting This volume introduces innovative approaches in hedging capital budgeting and nonlinear models in corporate finance research providing valuable insights for professionals and academics alike Volume 4 explores the integration of big data and advanced econometrics in finance It examines the impact of lead independent directors on earnings management and the dynamic relationship between stock prices and exchange rates Readers will find cutting edge techniques in survival analysis deep neural networks for credit risk and volatility spillovers during market crises Written in a comprehensive manner the four volumes discuss how to use higher moment theory to analyze investment analysis and portfolio management In addition they also discuss risk management theory and its application Artificial Intelligence Technologies and the Evolution of Web 3.0 Issa, Tomayess, Isaías, Pedro, 2015-02-28 Web technologies have become a vital element within educational professional and social settings as they have the potential to improve performance and productivity across organizations Artificial Intelligence Technologies and the Evolution of Web 3 0 brings together emergent research and best practices surrounding the effective usage of Web 3 0 technologies in a variety of environments Featuring

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Fraud Detection in White-Collar Crime Rohan Ahmed,2018-06-28 Bachelor Thesis from the year 2017 in the subject Computer Science Commercial Information Technology grade 1 3 Heilbronn University language English abstract White collar crime is and has always been an urgent issue for the society In recent years white collar crime has increased dramatically by technological advances The studies show that companies are affected annually by corruption balance sheet manipulation embezzlement criminal insolvency and other economic crimes The companies are usually unable to identify the damage caused by fraudulent activities To prevent fraud companies have the opportunity to use intelligent IT approaches The data analyst or the investigator can use the data which is stored digitally in today s world to detect fraud In the age of Big Data digital information is increasing enormously Storage is cheap today and no longer a limited medium The estimates assume that today up to 80 percent of all operational information is stored in the form of unstructured text documents This bachelor thesis examines Data Mining and Text Mining as intelligent IT approaches for fraud detection in white collar crime Text Mining is related to Data Mining For a differentiation the source of the information and the structure is important Text Mining is mainly concerned with weak or unstructured data while Data Mining often relies on structured sources At the beginning of this bachelor thesis an insight is first given on white collar crime For this purpose the three essential tasks of a fraud management are discussed Based on the fraud triangle of Cressey it is showed which conditions need to come together

so that an offender commits a fraudulent act Following some well known types of white collar crime are considered in more detail Text Mining approach was used to demonstrate how to extract potentially useful knowledge from unstructured text For this purpose two self generated e mails were converted into structured format Moreover a case study will be conducted on fraud detection in credit card dataset The dataset contains legitimate and fraudulent transactions Based on a literature research Data Mining techniques are selected and then applied on the dataset by using various sampling techniques and hyperparameter optimization with the goal to identify correctly predicted fraudulent transactions The CRISP DM reference model was used as a methodical procedure

Yojana ,2014 **Forest Science** ,2016 *Annual Report* Han'guk Ūnhaeng,2019 Revista Mexicana de Astronomía Y Astrofísica ,2014 **Electrical Engineer** ,1890 The Electrical Engineer ,1890 *The New York Times Index* ,2007 Journal of Soil and Water Conservation ,2015 Vol 25 no 1 contains the society's Lincoln Chapter's Resource conservation glossary *Canadian Journal of Forest Research* ,2016 **Directory of Physicians and Surgeons, Osteopaths, Drugless Practitioners, Chiropodists Holding Certificates Issued Under the Medical Practice Acts of the State of California** California. Board of Medical Examiners,1962 **Directory of Physicians and Surgeons, Osteopaths, Drugless Practitioners, Chiropodists, Midwives Holding Certificates Issued Under the Medical Practice Acts of the State of California** California. Board of Medical Examiners,1962 Wallace's Farmer ,2014 **Maxcy-Rosenau-Last Public Health and Preventive Medicine: Sixteenth Edition** Matthew L. Boulton,Robert H. Wallace,2021-06-05 Now in full color the 1 text spanning the fields of public health and preventive medicine brings you fully up to date on the issues and topics you need to know A Doody's Core Title for 2024 2023 Maxcy Rosenau Last Public Health and Preventive Medicine has been updated and revised for the first time in more than a decade This highly anticipated and extensive edition provides the most current information and insights available on evidence based public health and preventive medicine from basic methodologies of public health to principles of epidemiology and infection control to environmental toxicology to global health The most comprehensive resource of its kind Maxcy Rosenau Last Public Health and Preventive Medicine is the clear choice for anyone seeking a career in public health Features Edited and written by a who's who of global experts 384 photos and illustrations New full color format and improved artwork Significantly expanded coverage of diseases and preventive methods common in international markets Greater use of tables and summary lists for easier reading and retention Parliamentary Debates India. Parliament. Rajya Sabha,1981

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