A First Course in Probability 10th Edition Solution Manual

Problems Chapter 1

1.   (a) By the generalized basic principle of counting there are

$$26 \cdot 26 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 = 67,600,000$$

    (b) $26 \cdot 25 \cdot 10 \cdot 9 \cdot 8 \cdot 7 \cdot 6 = 19,656,000$

2. $6^4 = 1296$

3.   An assignment is a sequence $i_1, \ldots, i_{20}$ where i_j is the job to which person j is assigned. Since only one person can be assigned to a job, it follows that the sequence is a permutation of the numbers $1, \ldots, 20$ and so there are $20!$ different possible assignments.

4.   There are $4!$ possible arrangements. By assigning instruments to Jay, Jack, John and Jim, in that order, we see by the generalized basic principle that there are $2 \cdot 1 \cdot 2 \cdot 1 = 4$ possibilities.

5.   There were $8 \cdot 2 \cdot 9 = 144$ possible codes. There were $1 \cdot 2 \cdot 9 = 18$ that started with a 4.

6.   Each kitten can be identified by a code number i, j, k, l where each of i, j, k, l is any of the numbers from 1 to 7. The number i represents which wife is carrying the kitten, j then represents which of that wife's 7 sacks contain the kitten; k represents which of the 7 cats in sack j of wife i is the mother of the kitten; and l represents the number of the kitten of cat k in sack j of wife i. By the generalized principle there are thus $7 \cdot 7 \cdot 7 \cdot 7 = 2401$ kittens

7.   (a) $6! = 720$

    (b) $2 \cdot 3! \cdot 3! = 72$

    (c) $4!3! = 144$

    (d) $6 \cdot 3 \cdot 2 \cdot 2 \cdot 1 \cdot 1 = 72$

8.   (a) $5! = 120$

    (b) $\dfrac{7!}{2!2!} = 1260$

    (c) $\dfrac{11!}{4!4!2!} = 34,650$

    (d) $\dfrac{7!}{2!2!} = 1260$

9. $\dfrac{(12)!}{6!4!} = 27,720$

Solution Manual Probability And Computing

R. Dennis Cook,Sanford Weisberg

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<u>Revised Student Solutions Manual</u> Mark L. Berenson,2002 *Student's Solutions Manual* Bill Armstrong,Denyse Kerr,Don Davis,2002-11 *Study Guide and Student Solutions Manual for Use with Statistics, a First Course, First Canadian Edition* Robert K. Smidt,2001 **Business Statistics Student Solutions Manual** David M. Levine,Timothy C. Krehbiel,Mark L. Berenson,Pin T. Ng,2005-08 Written by Pin T Ng Northern Arizona State University Consists of three major sections the Objective section summarizes what is expected of a student after reading a chapter the Overview and Key Concepts section provides an overview of the major topics covered in a chapter and lists the important key concepts Solutions to Even Numbered Problems section provides extra detail in the problem solutions *Computing Handbook, Third Edition* Teofilo Gonzalez,Jorge Diaz-Herrera,Allen Tucker,2014-05-07 Computing Handbook Third Edition Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers the first volume of this popular handbook examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals Like the second volume this first volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century **Applications of Evolutionary Computing** Stefano Cagnoni,Jens Gottlieb,Emma Hart,Martin Middendorf,Günther R. Raidl,2002-03-20 This book constitutes the refereed proceedings of three workshops on the application of evolutionary programming and algorithms in various domains these workshops were held in conjunction with the 5th European Conference on Genetic Programming EuroGP 2002 in Kinsale Ireland in April 2002 The 33 revised full papers presented were carefully reviewed and selected by the respective program committees In accordance with the three workshops EvoCOP EvoIASP and EvoSTIM EvoPLAN the papers are organized in topical sections on combinatorial optimization problems image analysis and signal processing and scheduling timetabling and AI planning *Computing Handbook* Allen Tucker,Teofilo Gonzalez,Heikki Topi,Jorge Diaz-Herrera,2022-05-29 This two volume set of the Computing Handbook Third Edition previously theComputer Science Handbook provides up to date information on a wide range of topics in computer science information systems IS information technology IT and software engineering The third edition of this popular handbook addresses not only the dramatic growth of computing as a discipline but also the relatively new delineation of computing as a family of separate disciplines as described by the Association for Computing Machinery ACM the IEEE

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