

6. Aleks has written a Python function `gen_unif(a, b)` that gives a random sample from the *continuous* $Unif(a, b)$ distribution. However, what Aleks really wants is a function `gen_exp(lambduh)` that takes a parameter λ (lambduh as written in the code) and returns a sample from the $Exp(\lambda)$ distribution.

Aleks is lazy, and thus thinks that he can code this new function in only one line and utilizing his function `gen_unif(a, b)`. To do this, he'll need to "transform" a sample of a uniform distribution into that of an exponential distribution.

– 4 –

- (a) Let $X \sim Unif(0, 1)$ be a continuous uniform random variable. Show that $Z = g(X) = -\frac{1}{\lambda} \ln(1 - X) \sim Exp(\lambda)$. Aleks specifically wants you to show this using the CDF transformation method, by computing $F_Z(z)$.
- (b) Aleks is only 90% sure his math was correct from earlier and still isn't convinced. Now he wants you to show the same thing (that $Z = g(X) = -\frac{1}{\lambda} \ln(1 - X) \sim Exp(\lambda)$), this time using the explicit formula from section 4.4 to compute $f_Z(z)$. Make sure to explicitly verify the monotonicity and invertibility criteria.
- (c) Now that we've verified that this transformation is "legit", help Aleks translate it into code! Write the Python function `gen_exp(lambduh)` using only `gen_unif(a, b)` to generate randomness. It should only be ONE LINE, and you may use `np.log` to compute the natural logarithm.

```
def gen_exp(lambduh:float) -> float:
    # Your one-line of code here.
```

- (d) Note that the transformation we applied to X was the inverse of the CDF of the exponential distribution (if $Y \sim Exp(\lambda)$, then $F_Y(y) = 1 - e^{-\lambda y}$ for $y \geq 0$ and the inverse CDF is $g(y) = F_Y^{-1}(y) = -\frac{1}{\lambda} \ln(1 - y)$.)

This process, in fact, works for any *arbitrary* continuous distribution! Explain how to generate a sample from a continuous distribution T , given only its CDF F_T and access to a single sample from $X \sim Unif(0, 1)$. Explain why this process makes sense intuitively as well in AT MOST 2-3 sentences. (Hint: It's similar to the previous part!)

Aleks Random Sample

Linda C. Hodges



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ALEKS Instructor's Manual Harold D. Baker, 2005 Knowledge Spaces Jean-Claude Falmagne, Dietrich Albert, Christopher Doble, David Eppstein, Xiangen Hu, 2013-06-20 The book describes up to date applications and relevant theoretical results These applications come from various places but the most important one numerically speaking is the internet based educational system ALEKS The ALEKS system is bilingual English Spanish and covers all of mathematics from third grade to the end of high school and chemistry It is also widely used in higher education because US students are often poorly prepared when they reach the university level The chapter by Taagepera and Arasasingham deals with the application of knowledge spaces independent of ALEKS to the teaching of college chemistry The four chapters by Albert and his collaborators strive to give cognitive interpretations to the combinatoric structures obtained and used by the ALEKS system The contribution by Eppstein is technical and develops means of searching the knowledge structure efficiently

Principles of Data Mining and Knowledge Discovery Luc de Raedt, Arno Siebes, 2003-06-30 This book constitutes the refereed proceedings of the 5th European Conference on Principles of Data Mining and Knowledge Discovery PKDD 2001 held in Freiburg Germany in September 2001 The 40 revised full papers presented together with four invited contributions were carefully reviewed and selected from close to 100 submissions Among the topics addressed are hidden Markov models text summarization supervised learning unsupervised learning demographic data analysis phenotype data mining spatio temporal clustering Web usage analysis association rules clustering algorithms time series analysis rule discovery text categorization self organizing maps filtering reinforcement learning support vector machines visual data mining and machine learning

Statistical Test Theory for the Behavioral Sciences Dato N. M. de Gruijter, Leo J. Th. van der Kamp, 2007-08-31 Since the development of the first intelligence test in the early 20th century educational and psychological tests have become important measurement techniques to quantify human behavior Focusing on this ubiquitous yet fruitful area of research Statistical Test Theory for the Behavioral Sciences provides both a broad overview and a **Teaching Undergraduate Science** Linda C. Hodges, 2023-07-03 This book is written for all science or engineering faculty who have ever found themselves baffled and frustrated by their undergraduate students lack of engagement and learning The author an experienced scientist faculty member and educational consultant addresses these issues with the knowledge of faculty interests constraints and day to day concerns in mind Drawing from the research on learning she offers faculty new ways to think about the struggles their science students face She then provides a range of evidence based teaching strategies that can make the time faculty spend in the classroom more productive and satisfying Linda Hodges reviews the various learning problems endemic to teaching science explains why they are so common and persistent and presents a digest of key ideas and strategies to address them based on the research she has undertaken into the literature on the cognitive sciences and education Recognizing that faculty have different views about teaching different comfort levels with alternative teaching

approaches and are often pressed for time Linda Hodges takes these constraints into account by first offering a framework for thinking purposefully about course design and teaching choices and then providing a range of strategies to address very specific teaching barriers whether it be students motivation engagement in class ability to problem solve their reading comprehension or laboratory research or writing skills Except for the first and last chapters the other chapters in this book stand on their own i e can be read in any order and address a specific challenge students have in learning and doing science Each chapter summarizes the research explaining why students struggle and concludes by offering several teaching options categorized by how easy or difficult they are to implement Some for example can work in a large lecture class without a great expenditure of time others may require more preparation and a more adventurous approach to teaching Each strategy is accompanied by a table categorizing its likely impact how much time it will take in class or out and how difficult it will be to implement Like scientific research teaching works best when faculty start with a goal in mind plan an approach building on the literature use well tested methodologies and analyze results for future trials Linda Hodges message is that with such intentional thought and a bit of effort faculty can succeed in helping many more students gain exciting new skills and abilities whether those students are potential scientists or physicians or entrepreneurs Her book serves as a mini compendium of current research as well as a protocol manual a readily accessible guide to the literature the best practices known to date and a framework for thinking about teaching

Intelligent Tutoring Systems Stefan Trausan-Matu, Kristy Boyer, Martha Crosby, Kitty Panourgia, 2014-05-24 This book constitutes the refereed proceedings of the 12th International Conference on Intelligent Tutoring Systems ITS 2014 held in Honolulu HI USA in June 2014 The 31 revised full papers 45 short papers and 27 posters presented were carefully viewed and selected from 177 submissions The specific theme of the ITS 2014 conference is Creating fertile soil for learning interactions Besides that the highly interdisciplinary ITS conferences bring together researchers in computer science learning sciences cognitive and educational psychology sociology cognitive science artificial intelligence machine learning and linguistics The papers are organized in topical sections on affect multimodality and metacognition collaborative learning data mining and student behavior dialogue and discourse generating hints scaffolds and questions game based learning and simulation graphical representations and learning student strategies and problem solving scaling ITS and assessment

Handbook of Research on Learning and Instruction Richard E. Mayer, Patricia A. Alexander, 2016-10-04 During the past 30 years researchers have made exciting progress in the science of learning i e how people learn and the science of instruction i e how to help people learn This second edition of the Handbook of Research on Learning and Instruction is intended to provide an overview of these research advances With chapters written by leading researchers from around the world this volume examines learning and instruction in a variety of learning environments including in classrooms and out of classrooms and with a variety of learners including K 16 students and adult learners Contributors to this volume demonstrate how and why educational practice should be guided by research evidence

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Learning Spaces Jean-Claude Falmagne,Jean-Paul Doignon,2010-09-10 Learning spaces offer a rigorous mathematical foundation for practical systems of educational technology Learning spaces generalize partially ordered sets and are special cases of knowledge spaces The various structures are investigated from the standpoints of combinatorial properties and stochastic processes Learning spaces have become the essential structures to be used in assessing students competence of various topics A practical example is offered by ALEKS a Web based artificially intelligent assessment and learning system in mathematics and other scholarly fields At the heart of ALEKS is an artificial intelligence engine that assesses each student individually and continuously The book is of interest to mathematically oriented readers in education computer science engineering and combinatorics at research and graduate levels Numerous examples and exercises are included together with an extensive bibliography **Journal of Developmental Education** ,2010

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