Building fast privacy-preserving scheme for applications on smart devices

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Outline

IntroductionMathematics



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1 Introduction
Mathematics



Introduction

• "Imitator Game"



Nowadays

- Internet is liking a blackhole,
- Snowden
- Apple Cloud

Item	Quantity
Widgets	42
Gadgets	13

An example table.



Table of Contents

IntroductionMathematics



Readable Mathematics

Let X_1, X_2, \ldots, X_n be a sequence of independent and identically distributed random variables with $\mathsf{E}[X_i] = \mu$ and $\mathsf{Var}[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_{i=1}^{n} X_i$$

denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$.

