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Autore	Mukherjee Sudipta
Titolo	Thinking in LINQ : Harnessing the Power of Functional Programming in .NET Applications / / by Sudipta Mukherjee
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Descrizione fisica	1 online resource (259 p.)
Collana	Expert's Voice In Networking
Disciplina	006.7882
Soggetti	Microsoft software
	Microsoft .NET Framework
	Software engineering
	Microsoft and .NET
	Software Engineering/Programming and Operating Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Contents at a Glance; Contents; About the Author; About the Technical Reviewer; Acknowledgments; Introduction; Chapter 1: Thinking Functionally; 1-1. Understanding Functional Programming; 1-2. Using Func in C# to Represent Functions; 1-3. Using Various Types of Functions; Generator Functions; Statistical Functions; Projector Functions; Filters; 1-4. Understanding the Benefits of Functional Programming; Composability; Lazy Evaluation; Immutability; Parallelizable; Declarative; 1-5. Getting LINQPad; Chapter 2: Series Generation; 2-1. Math and Statistics: Finding the Dot Product of Two Vectors ProblemSolution; How It Works; 2-2. Math and Statistics: Generating Pythagorean Triples; Problem; Solution; How It Works; 2-3. Math and Statistics: Finding a Weighted Sum; Problem; Solution; How It Works; 2-4. Math and Statistics: Finding the Percentile for Each Element in an Array of Numbers; Problem; Solution; How It Works; 2-5. Math and Statistics: Finding the Dominator in an Array; Problem; Solution; How It Works; 2-6. Math and Statistics: Finding the Minimum Number of Currency Bills Required for a Given Amount; Problem; Solution; How It Works

Sommario/riassunto	LINQ represents a paradigm shift for developers used to an imperative/object oriented programming style, because LINQ draws on functional programming principles. Thinking in LINQ addresses the differences between these two by providing a set of succinct recipes arranged in several groups, including: Basic and extended LINQ operators Text processing Loop refactoring Monitoring code health Reactive Extensions (Rx.NET) Building domain-specific languages Using the familiar "recipes" approach, Thinking in LINQ shows you how to approach building LINQ-based solutions, how such solutions are different from what you already know, and why they're better. The recipes cover a wide range of real-world problems, from using LINQ to replace existing loops, to writing your own Swype-like keyboard entry routines, to finding duplicate files on your hard drive. The goal of these recipes is to get you "thinking in LINQ," so you can use the techniques in your own code to write more efficient and concise data-intensive applications.