

Java Generics And Collections

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this book written by one of the designers of generics is a thorough explanation of how to use generics and particularly the effect this facility has on the way developers use collections

java generics and collections has been the go to guide to generics for more than a decade this second edition covers java 21 providing a clear guide to generics from their most common uses to the strangest corner cases giving you everything you need to know to use and write generic apis effectively it covers the collections library thoroughly so you ll always know how and when to use each collection for any given task and it explains stream processing so you ll know which model to use and how they interoperate to get the best out of the platform library this indispensable guide covers fundamentals of generics type parameters and generic methods subtyping and wildcards generics and reflection design patterns for generics sets queues lists maps and their implementations concurrent programming and thread safety with collections performance of different collection implementations best practices for using and extending the java collections framework design philosophy and comparison with other collections libraries

description java generics and the collections framework are at the heart of writing efficient type safe and scalable java applications generics are essential for type safety and maximizing code reusability making your applications less prone to runtime errors if you want to write code that is not only clean but also performs at its best mastering these concepts is non negotiable this book is your go to guide for unlocking the full potential of generics and collections helping you write code that stands out this book systematically breaks down the entire subject beginning with generic classes and methods before exploring advanced bounded types and wildcards you will explore key java collections like sets lists queues and maps by learning the best use cases and implementation techniques for each you will also tackle thread safety performance optimization and extending collections to solve real world problems efficiently furthermore you will learn about queue and deque structures synchronization techniques utility classes for sorting and searching and applying generic algorithms by the end of this book you will be more than just a proficient java developer you will be a master of generics and collections whether you are optimizing applications designing robust data structures or ensuring thread safe environments you ll have the skills to build fast efficient and maintainable code with confidence what you will learn apply generics for type safety in classes methods and constructors work with java collections like lists maps and queues explore wildcards subtyping and bounded types in generics learn to optimize performance and ensure thread safety extend and customize collections for real world use cases navigate the collections hierarchy using iterable collection and wrapper classes who this book is for this book is for individuals who are looking to improve their use of java generics and the collections framework to write efficient and reusable code it is specifically designed for backend developers software engineers technical architects and technical leads working on java based applications

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