

Beginner's Guide to Java Collections

This course covers the fundamentals of java collections framework covering different data structures in Java to store, group, and retrieve objects.

BEGINNER

17 LESSONS

2H 35MIN TOTAL

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WHAT YOU'LL LEARN

- Understand the Java Collections Framework and when to use each data structure
- Work with List implementations like ArrayList, LinkedList, and Vector
- Use Set and Map implementations such as HashSet, TreeMap, and HashMap
- Explore Queue and Deque implementations like PriorityQueue, Stack, and ArrayDeque
- Choose the right collection type to write efficient, scalable Java code

PREREQUISITES

- Basic understanding of Java programming language
- Familiarity with object-oriented programming concepts
- Understanding of basic data structures (arrays, linked lists)

OVERVIEW

Welcome to "Beginner's Guide to Java Collections Course" - your complete guide to understanding and implementing Java's powerful collections framework. This comprehensive course takes you on a journey from basic data structures to advanced collection implementations, equipping you with the knowledge and skills needed to write efficient, scalable Java applications.

This course is ideal for:

- Java developers looking to strengthen their fundamentals
- Programming students transitioning from basic Java to intermediate concepts
- Software engineers wanting to optimize their code using appropriate data structures
- Backend developers working with data-intensive applications
- Anyone preparing for Java technical interviews

COURSE CURRICULUM

01	Introduction to Java Collections	3 min	OPEN
02	ArrayList in Java	22 min	OPEN
03	LinkedList in Java	17 min	OPEN

04	CopyOnWriteArrayList in Java	8 min	OPEN
05	Vector in Java	8 min	OPEN
06	Stack in Java	7 min	OPEN
07	HashSet in Java	13 min	OPEN
08	LinkedHashSet in Java	5 min	OPEN
09	TreeSet in Java	7 min	OPEN
10	PriorityQueue in Java	9 min	OPEN
11	DelayQueue in Java	7 min	OPEN
12	ArrayDeque in Java	8 min	OPEN
13	HashMap in Java	12 min	OPEN
14	LinkedHashMap in Java	9 min	OPEN
15	IdentityHashMap in Java	5 min	OPEN
16	TreeMap in Java	9 min	OPEN
17	Hashtable in Java	3 min	OPEN

INSTRUCTOR



Nilanchala Panigrahy

Software Architect based in London with 19+ years of experience designing and scaling mission-critical backend systems. Nilanchala has worked on large-scale enterprise platforms, led digital transformation initiatives, and guided teams through complex system design decisions where reliability, security, and maintainability actually matter. Beyond architecture, he's passionate about mentorship — helping developers bridge the gap between writing clean code and designing robust systems.

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