

QUESTION 3: Advanced Java Programming

Analyse the following Java code segment and answer the questions that follow:

```
1 public class GenericCreator<X, Y> {  
2     private X simple;  
3     private Y[] advanced;  
4     public static init(X x) {  
5         System.out.println(x);  
6     }  
7     public void setSimple(X x) {  
8         simple = x;  
9     }  
10    public void createY() {  
11        advanced = new Y[5];  
12    }  
13 }
```

The code shown above does not *compile*. Indicate the line(s) where *problem(s)* occur and provide Java source code that will correct the problem.

Advanced Java Programming Question Bank With Answer

Arshad Iqbal



Advanced Java Programming Question Bank With Answer:

Mastering Advanced Java Programming Question Bank Vol-1 Anshuman Mishra, 2025-07-08 Java has long held its position as one of the most robust and versatile programming languages in the world. With its WORA (Write Once Run Anywhere) philosophy, strong community support, extensive libraries, and vast application from enterprise software to Android development, Java remains a top choice for developers across domains. As academia, industry, and government services increasingly demand Java proficiency, there is an ever-growing need for quality educational resources that combine theoretical understanding with practical insight. This book, **Mastering Advanced Java Programming QUESTION BANK**, is designed to fulfill that demand. It offers an exhaustive and carefully structured set of conceptual and practice-based questions for undergraduate, postgraduate, and professional level learners. The content is aligned with the curricula of BCA, MCA, B.Tech, and M.Tech programs and caters equally to interview aspirants preparing for top software companies or competitive examinations.

Purpose of the Book: The main goal of this book is to create a comprehensive question bank that supports deep conceptual clarity, practical problem-solving, and real-world application of advanced Java programming topics. Rather than simply providing theoretical content, this book focuses on enabling mastery through questions, helping students and professionals prepare for technical interviews and campus placements. Serving as a self-assessment tool and a ready reference during academic exams, it facilitates the transition from basic to advanced level Java programming through gradual topic progression. The book covers all essential and advanced topics in Java, ensuring a 360-degree approach to learning the language.

Who Should Use This Book: This book is ideal for Undergraduate and Postgraduate Students of BCA, MCA, B.Tech, M.Tech, Computer Science, IT, Software Engineering, AI, Data Science, etc. Faculty Members and Trainers who want a ready resource for quizzes, assignments, and classroom problem-solving sessions. Software Professionals and Developers who want to brush up on their Java fundamentals and advanced knowledge. Job Aspirants and Interview Candidates preparing for software interviews at top companies like TCS, Infosys, Wipro, Cognizant, Capgemini, Google, Amazon, Microsoft, etc. Competitive Exam Candidates preparing for UGC NET, GATE, NIELIT, ISRO, DRDO, or PSU exams.

Structure of the Book: Each chapter in this book is centered around a major concept or module of advanced Java. The topics are logically sequenced to help learners move from foundational to complex topics efficiently. Every chapter includes:

- 50 Multiple Choice Questions (MCQs) To quickly test theoretical and applied understanding of key concepts.
- 25 Short Answer Questions. These are designed to reinforce definitions, syntax, differences, and direct knowledge.
- 15 Mid-Length Answer Questions. These offer detailed explanations, programming scenarios, and algorithmic logic.
- 20 Programming Questions with Answers. Focused on hands-on coding problems, real-time logic implementation, debugging exercises, and project-level code blocks.

This uniform structure ensures that learners not only grasp the concept but also gain confidence through layered practice.

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Improved Problem Solving Abilities This book will help sharpen your problem solving skills by guiding you through a wide variety of questions from simple to complex You will learn how to break down problems and come up with effective solutions using Java

Deep Understanding of Core Java Concepts The long answer questions will encourage you to explain Java concepts thoroughly This deepens your understanding and ensures that you not only know the syntax but also understand how and why things work the way they do in Java

Confidence for Exams and Interviews The diverse range of questions MCQs short answers practicals and long answers will prepare you for academic exams coding tests or Java related interviews Practicing with this book will build your confidence when tackling real world Java programming challenges

Clear Grasp of Object Oriented Programming OOP OOP is

a core concept in Java Through this book you will gain a solid grasp of object oriented principles such as classes objects inheritance polymorphism encapsulation and abstraction all of which are vital for writing efficient Java code Familiarity with Java s Advanced Features As you progress through the chapters you will also gain insights into Java s advanced features such as exception handling collections and file handling which are essential for writing robust and scalable applications Strong Foundation for Further Learning By mastering the concepts in this book you will establish a strong foundation in Java enabling you to explore more advanced topics

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Starting Out with Java, Alternate Edition Tony Gaddis, 2004 **Java Programming with Microsoft Visual J++ 6.0** Joyce Farrell, Don Gosselin, 1999 This title presents fundamental programming concepts using Microsoft's Visual J 6.0 Step by step exercises illustrate the concepts being explained reinforcing the reader's understanding and retention The book assumes no previous programming knowledge [Late Night Advanced Java](#) Jason Wehling, Vidya Bharat, 1996 Written in a tutorial style this is a beginning programming book It is divided into four main parts progressively taking the programmer through more difficult programming It contains numerous examples and concepts are introduced with interesting real world programs **Java Report**, 2001 *Advanced Techniques for Java Developers* Daniel J. Berg, J. Steven Fritzinger, 1997 Leading Java experts show you how to design and develop Java applications using the latest Java technologies included in JDKTM 1.1 and JDKTM 1.2 Are you an experienced Java programmer ready to take the leap from applet programming to building full blown business applications Then this is the book for you The authors and contributors show you techniques using the latest Java technologies that dramatically extend the capabilities of Java This book includes the latest in Java Media RMI JDBC JFC JavaBeans™ security and more This is the first book where Java experts come together to show you what technology and techniques they use to produce real world Java applications Using numerous sample programs included on the CD ROM this book provides you with cutting edge techniques for building sophisticated applications using the latest Java

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