

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

Marco Cascella



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 designed to reinforce definitions, syntax, differences, and direct knowledge, 15 Mid-Length Answer Questions offering detailed explanations, programming scenarios, and algorithmic logic, and 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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Java Programming Joe Wigglesworth, Paula McMillan, 2004 This highly anticipated thoroughly updated revision incorporates exciting changes and updates and is perfect for a second course in Java This new edition now begins where a first course leaves off and includes advanced topics such as JavaBeans Enterprise JavaBeans Network Programming J2EE features and Security All concepts are reinforced through code examples sample programs and exercises Take your Java programming skills to the next level with this text

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Introduction to JAVA Programming Y. Daniel Liang, 2007 Programming is above all problem solving This book will help student thoroughly understand real world programming problems and solve

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Instructor's Manual and Test Bank to Accompany Slack's Programming and Problem Solving with Java ,2000

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

Starting Out with Java, Alternate Edition Tony Gaddis,2004

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

Python Quick Interview Guide Shyamkant Limaye,2021-04-10 Quick solutions to frequently asked algorithm and data structure questions

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- _ Learn how to crack the Data structure and Algorithms Code test using the top 75 questions solutions discussed in the book
- _ Refresher on Python data structures and writing clean actionable python codes
- _ Simplified solutions on translating business problems into executable programs and applications

DESCRIPTION Python is the most popular programming language and hence there is a huge demand for Python programmers Even if you have learnt Python or have done projects on AI you cannot enter the top companies unless you have cleared the Algorithms and data Structure coding test This book presents 75 most frequently asked coding questions by top companies of the world It not only focuses on the solution strategy but also provides you with the working code This book will equip you with the skills required for developing and analyzing algorithms for various situations This book teaches you how to measure Time Complexity it then provides solutions to questions on the Linked list Stack Hash table and Math Then you can review questions and solutions based on graph theory and application techniques Towards the end you will come across coding questions on advanced topics such as Backtracking Greedy Divide and Conquer and Dynamic Programming After reading this book you will successfully pass the python interview with high confidence and passion for exploring python in future

WHAT YOU WILL LEARN

- _ Design an efficient algorithm to solve the problem
- _ Learn to use python tricks to make your program competitive
- _ Learn to understand and measure time and space complexity
- _ Get solutions to questions based on Searching Sorting Graphs DFS BFS Backtracking Dynamic programming

WHO THIS BOOK

IS FOR This book will help professionals and beginners clear the Data structures and Algorithms coding test Basic knowledge of Python and Data Structures is a must

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Advanced Techniques for Java Developers Daniel J. Berg, J. Steven Fritzing, 1997 Leading Java experts show you how to design and develop Java applications using the latest Java technologies included in JDK™ 1.1 and JDK™ 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 technologies Concentrating on topics of vital interest to programmers who need to write mission critical business applications the authors detail and explain the following

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- Advanced security techniques
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Java Report, 2001 **Java Software Structures for AP Computer Science AB**
John Lewis, Joe Chase, William Loftus, Leigh Ann Sudol, 2005 **Component Strategies**, 1998 Computing Fundamentals with Java Rick Mercer, 2002

Computing Fundamentals with Java is the current effort in the author's 11 year journey of integrating object oriented programming into the first computer science course while retaining the commonly accepted fundamentals of computing In addition to traditional topics and the newer objects and classes this text provides three bonus chapters on object oriented software development in the context of a case study This book is written to clearly present fundamental concepts to beginning programmers

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