[Popular Core Java Interview Questions and Answers (2023) (simplilearn.com)](https://www.simplilearn.com/tutorials/java-tutorial/java-interview-questions)

1. What is Java?
2. Why is Java a platform independent language?
3. What are the differences between C++ and Java?
4. List the features of the Java Programming language?
5. What do you get in the Java download file? How do they differ from one another?
6. What is a ClassLoader?
7. What are the Memory Allocations available in Java?
8. What are the differences between Heap and Stack Memory in Java?
9. Will the program run if we write static public void main?
10. Explain the expected output of the following code segment?
11. What is an Association?
12. What do you mean by aggregation?
13. Define Copy Constructor in Java
14. What is a Marker Interface?
15. What is Object Cloning?
16. Can Java be said to be the complete object-oriented programming language
17. What is an object-oriented paradigm?
18. Define Wrapper Classes in Java.
19. What is a singleton class in Java? And How to implement a singleton class?
20. Define package in Java.
21. Can you implement pointers in a Java Program?
22. Differentiate between instance and local variables.
23. Explain Java String Pool.
24. What is an Exception? How does an exception propagate in the code?
25. What is the final keyword in Java?
26. What happens when the main() isn't declared as static and why is it static?
27. What part of memory - Stack or Heap - is cleaned in the garbage collection process?
28. What is the difference between the program and the process?
29. What are the differences between constructor and method of a class in Java?
30. Which among StringBuilder or StringBuffer should be preferred when there are a lot of updates required to be done in the data?
31. Can we make the main() thread a daemon thread?
32. What happens if there are multiple main methods inside one class in Java?
33. Can you call a constructor of a class inside another constructor?
34. Why does the Java array index start with 0?
35. Why is the remove method faster in the linked list than in an array?
36. How many overloaded add() and addAll() methods are available in the List interface? Describe the need and uses.
37. How does the size of ArrayList grow dynamically? And also state how it is implemented internally?
38. How is the creation of a String using new() different from that of a literal?
39. How is the ‘new' operator different from the ‘newInstance()' operator in java?
40. Is exceeding the memory limit possible in a program despite having a garbage collector?
41. Why is synchronization necessary? Explain with the help of a relevant example.
42. Define System.out.println().
43. Can you explain the Java thread lifecycle?
44. What could be the tradeoff between the usage of an unordered array versus the usage of an ordered array?
45. Is it possible to import the same class or package twice in Java and what happens to it during runtime?
46. In case a package has sub packages, will it suffice to import only the main package? e.g. Does importing of com.myMainPackage.\* also import com.myMainPackage.mySubPackage.\*?
47. Will the final block be executed if the code System.exit(0) is written at the end of the try block?
48. Explain the term “Double Brace Initialization” in Java?
49. Why is it said that the length() method of String class doesn't return accurate results?
50. What are the possible ways of making objects eligible for garbage collection (GC) in Java?
51. What is the best way to inject dependency? Also, state the reason.
52. How we can set the spring bean scope. And what supported scopes does it have?
53. What are the different categories of Design patterns?
54. What is a Memory Leak? Discuss some common causes of it.
55. Assume a thread has a lock on it, calling the sleep() method on that thread will release the lock?
56. Write a Java Program to print Fibonacci Series using Recursion.
57. Write a Java program to check if the two strings are anagrams.
58. Write a Java Program to find the factorial of a given number.
59. Given an array of non-duplicating numbers from 1 to n where one number is missing, write an efficient java program to find that missing number.
60. Write a Java Program to check if any number is a magic number or not. A number is said to be a magic number if after doing the sum of digits in each step and in turn doing the sum of digits of that sum, the ultimate result (when there is only one digit left) is 1.
61. Write a Java program to create and throw custom exceptions.
62. Write a Java program to rotate arrays 90 degree clockwise by taking matrices from user input.
63. Write a java program to check if any number given as input is the sum of 2 prime numbers.
64. Write a Java program for solving the Tower of Hanoi Problem.
65. Implement Binary Search in Java using recursion.
66. Are delete, next, main, exit or null keywords in java?
67. What is a JIT compiler?
68. What are Brief Access Specifiers and Types of Access Specifiers?
69. How many types of constructors are used in Java?
70. Can a constructor return a value?
71. Explain ‘this’ keyword in Java.
72. Explain ‘super’ keyword in Java.
73. Explain Method Overloading in Java.
74. Can we overload a static method?
75. Define Late Binding.
76. Define Dynamic Method Dispatch.
77. Explain the difference between >> and >>> operators.
78. Brief the life cycle of an applet.
79. Why are generics used in Java Programming?
80. Explain the Externalizable interface.
81. What is the Daemon Thread?
82. Explain the term enumeration in Java.
83. Why is Java dynamic?
84. Can you run a code before executing the main method?
85. How many times is the finalize method called?
86. Can "this()" and "super()" keywords be used together?
87. What is a JSP page?
88. What is JDBC?
89. Explain the various directives in JSP.
90. What are the observer and observable classes?
91. What is Session Management in Java?
92. Briefly explain the term Spring Framework.
93. How to handle exceptions in Spring MVC Framework?
94. What is JCA in Java?
95. Explain JPA in Java.
96. Explain the different authentications in Java Servlets.
97. Explain FailFast iterator and FailSafe iterator along with examples for each.
98. How do we reverse a string?
99. Write a program that detects the duplicate characters in a string.
100. Write a Program to remove duplicates in an ArrayList.
101. Find the word count in a string using HashMap Collection.
102. Write a program to find the Second Highest number in an ArrayList
103. What is the difference between System.out, System.err, and System.in?
104. Could you provide an implementation for a Dictionary with a large number of words?
105. What do you understand by an instance variable and a local variable?
106. Comment on method overloading and overriding by citing relevant examples.
107. A single try block and multiple catch blocks can co-exist in a Java Program. Explain.
108. Do final, finally and finalize keywords have the same function?
109. When can you use the "super" keyword?
110. What are shallow copy and deep copy in Java?
111. Using relevant properties highlight the differences between interfaces and abstract classes.
112. What are the different ways of thread usage?
113. What is the difference between the ‘throw' and ‘throws' keyword in Java?
114. Java works as a “pass by value” or “pass by reference” phenomenon?
115. How to not allow serialization of attributes of a class in Java?
116. What are the default values assigned to variables and instances in Java?
117. What do you mean by data encapsulation?
118. Can you tell the difference between equals() method and equality operator (==) in Java?
119. Explain the use of the final keyword in variable, method and class.
120. Is it possible that the ‘finally' block will not be executed? If yes then list the case.
121. Difference between static methods, static variables, and static classes in Java.
122. What is the main objective of garbage collection?
123. Apart from the security aspect, what are the reasons behind making strings immutable in Java?
124. Which of the below generates a compile-time error? State the reason.
125. How would you differentiate between a String, StringBuffer, and a StringBuilder?
126. What is a Comparator in Java?
127. In Java, overriding static methods is not possible, but private method overriding is possible. Comment on the statement.
128. What makes a HashSet different from a TreeSet?
129. Why is the character array preferred over string for storing confidential information?
130. What are the differences between HashMap and HashTable in Java?
131. What is the importance of reflection in Java?
132. What are the different types of Thread Priorities in Java? And what is the default priority of a thread assigned by JVM?
133. What is the ‘IS-A‘ relationship in OOPs Java?
134. Why is Java, not a pure object-oriented language?
135. Explain static variables with examples and a diagram.
136. Explain static block
137. How can constructor chaining be done using this keyword?
138. Why are multiple inheritances not supported in Java?
139. Why is method overloading not possible by changing the return type in Java?
140. What is method overloading with type promotion?
141. Can we change the scope of the overridden method in the subclass?
142. Can you have virtual functions in Java?
143. What is the covariant return type?
144. Difference between the final method and the abstract method

[Core Java Interview Questions and Answers (2023) - InterviewBit](https://www.interviewbit.com/java-interview-questions/#instance-variables-and-local-variables-in-java)

1. What do you understand about an instance variable and a local variable?
2. How is an infinite loop declared in Java?
3. Briefly explain the concept of constructor overloading
4. Can the main method be Overloaded?
5. Identify the output of the java program and state the reason.
6. When can you use super keyword?
7. Is this program giving a compile-time error? If Yes then state the reason and number of errors it will give. If not then state the reason.
8. What do we get in the JDK file?
9. What are the differences between JVM, JRE and JDK in Java?
10. Identify the output of the below java program and Justify your answer.
11. Which among String or String Buffer should be preferred when there are lot of updates required to be done in the data?
12. Consider the below program, identify the output, and also state the reason for that.
13. Can we make the main() thread a daemon thread?
14. What happens if there are multiple main methods inside one class in Java?
15. How do exceptions affect the program if it doesn't handle them?
16. Is it mandatory for a catch block to be followed after a try block?
17. Contiguous memory locations are usually used for storing actual values in an array but not in ArrayList. Explain.
18. Although inheritance is a popular OOPs concept, it is less advantageous than composition. Explain.
19. What are Composition and Aggregation? State the difference.
20. In the given code below, what is the significance of ... ?
21. What will be the output of the below java program and define the steps of Execution of the java program with the help of the below code?
22. What is the output of the below code and why?
23. In the below Java Program, how many objects are eligible for garbage collection?
24. Check if a given string is palindrome using recursion.

[300 Core Java Interview Questions (2023) - javatpoint](https://www.javatpoint.com/corejava-interview-questions)

1. What do you understand by Java virtual machine?
2. What is the platform?
3. What are the main differences between the Java platform and other platforms?
4. What gives Java its 'write once and run anywhere' nature?
5. Is Empty .java file name a valid source file name?
6. If I don't provide any arguments on the command line, then what will the value stored in the String array passed into the main() method, empty or NULL?
7. What is the purpose of static methods and variables?
8. What are the advantages of Packages in Java?
9. What is the output of the following Java program?
10. What is the output of the following Java program?
11. What is an object?
12. What is the difference between an object-oriented programming language and object-based programming language?
13. What is the constructor?
14. What is the purpose of a default constructor?
15. Is constructor inherited?
16. Can you make a constructor final?
17. What is the output of the following Java program?
18. What is the output of the following Java program?
19. What is the output of the following Java program?
20. What is the static variable?
21. What is the static method?
22. What are the restrictions that are applied to the Java static methods?
23. Can we override the static methods?
24. Can we execute a program without main() method?
25. What is the difference between static (class) method and instance method?
26. Can we make constructors static?
27. Can we make the abstract methods static in Java?
28. Can we declare the static variables and methods in an abstract class?
29. What are the main uses of this keyword?
30. Can we assign the reference to this variable?
31. Can this keyword be used to refer static members?
32. What are the advantages of passing this into a method instead of the current class object itself?
33. What is the Inheritance?
34. Why is Inheritance used in Java?
35. How can constructor chaining be done by using the super keyword?
36. What are the main uses of the super keyword?
37. What are the differences between this and super keyword?
38. What is the output of the following Java program?
39. Can we overload the methods by making them static?
40. What is the output of the following Java program?
41. What is method overriding?
42. Can we override the overloaded method?
43. Difference between method Overloading and Overriding.
44. Can we override the private methods?
45. Can we change the scope of the overridden method in the subclass?
46. Can we modify the throws clause of the superclass method while overriding it in the subclass?
47. What is the output of the following Java program?
48. What is the output of the following Java program?
49. What is the final variable?
50. What is the final method?
51. What is the final class?
52. What is the final blank variable?
53. Can you declare the main method as final?
54. What is the output of the following Java program?
55. What is the output of the following Java program?
56. What is the difference between compile-time polymorphism and runtime polymorphism?
57. What is Runtime Polymorphism?
58. Can you achieve Runtime Polymorphism by data members?
59. What is the difference between static binding and dynamic binding?
60. What is the output of the following Java program?
61. What is Java instanceOf operator?
62. What is the abstraction?
63. What is the difference between abstraction and encapsulation?
64. What is the abstract class?
65. Can there be an abstract method without an abstract class?
66. Is the following program written correctly? If yes then what will be the output of the program?
67. Can you use abstract and final both with a method?
68. Is it possible to instantiate the abstract class?
69. What is the interface?
70. Can you declare an interface method static?
71. Can the Interface be final?
72. Can we define private and protected modifiers for the members in interfaces?
73. When can an object reference be cast to an interface reference?
74. How to make a read-only class in Java?
75. How to make a write-only class in Java?
76. What are the advantages of Encapsulation in Java?
77. How to create packages in Java?
78. How can we access some class in another class in Java?
79. Do I need to import java.lang package any time? Why?
80. What is the static import?
81. How many types of exception can occur in a Java program?
82. What is Exception Handling?
83. Explain the hierarchy of Java Exception classes?
84. What is the difference between Checked Exception and Unchecked Exception?
85. What is the base class for Error and Exception?
86. What is the output of the following Java program?
87. What is finally block?
88. Can finally block be used without a catch?
89. What is the output of the following Java program?
90. What is the output of the following Java program?
91. Can an exception be rethrown?
92. Can subclass overriding method declare an exception if parent class method doesn't throw an exception?
93. What is the output of the following Java program?
94. What is the output of the following Java program?
95. What is the meaning of immutable regarding String?
96. How many ways can we create the string object?
97. How many objects will be created in the following code?
98. Why java uses the concept of the string literal?
99. How many objects will be created in the following code?
100. What is the output of the following Java program?
101. What is the output of the following Java program?
102. How can we create an immutable class in Java?
103. What is the purpose of toString() method in Java?
104. Write a Java program to count the number of words present in a string?
105. Name some classes present in java.util.regex package.
106. How the metacharacters are different from the ordinary characters?
107. Write a regular expression to validate a password. A password must start with an alphabet and followed by alphanumeric characters; Its length must be in between 8 to 20.
108. What is the output of the following Java program?
109. What are the advantages of Java inner classes?
110. What is a nested class?
111. What are the disadvantages of using inner classes?
112. What are the types of inner classes (non-static nested class) used in Java?
113. Is there any difference between nested classes and inner classes?
114. Can we access the non-final local variable, inside the local inner class?
115. How many class files are created on compiling the OuterClass in the following program?
116. What are anonymous inner classes?
117. What is the nested interface?
118. Can a class have an interface?
119. Can an Interface have a class?
120. What is Garbage Collection?
121. What is gc()?
122. How is garbage collection controlled?
123. How can an object be unreferenced?
124. What is the purpose of the finalize() method?
125. Can an unreferenced object be referenced again?
126. What kind of thread is the Garbage collector thread?
127. What is the purpose of the Runtime class?
128. How will you invoke any external process in Java?
129. Give the hierarchy of InputStream and OutputStream classes.
130. What do you understand by an IO stream?
131. What is the difference between the Reader/Writer class hierarchy and the InputStream/OutputStream class hierarchy?
132. What are the super most classes for all the streams?
133. What are the FileInputStream and FileOutputStream?
134. What is the purpose of using BufferedInputStream and BufferedOutputStream classes?
135. How to set the Permissions to a file in Java?
136. What are FilterStreams?
137. What is an I/O filter?
138. In Java, How many ways you can take input from the console?
139. What is serialization?
140. How can you make a class serializable in Java?
141. How can you avoid serialization in child class if the base class is implementing the Serializable interface?
142. Can a Serialized object be transferred via network?
143. What is Deserialization?
144. What is the transient keyword?
145. What is the difference between Serializable and Externalizable interface?
146. Give a brief description of Java socket programming?
147. What is Socket?
148. What are the steps that are followed when two computers connect through TCP?
149. Write a program in Java to establish a connection between client and server?
150. How do I convert a numeric IP address like 192.18.97.39 into a hostname like java.sun.com?
151. What is the purpose of using java.lang.Class class?
152. What are the ways to instantiate the Class class?
153. What is the output of the following Java program?
154. What is the purpose of using javap?
155. Can you access the private method from outside the class?
156. What are autoboxing and unboxing? When does it occur?
157. What is the output of the below Java program?
158. What are the advantages and disadvantages of object cloning?
159. What is a native method?
160. What is the purpose of the strictfp keyword?
161. What is the purpose of the System class?
162. What comes to mind when someone mentions a shallow copy in Java?
163. Write a Java program that prints all the values given at command-line.
164. Which containers use a border layout as their default layout?
165. Which containers use a FlowLayout as their default layout?
166. What are peerless components?
167. is there is any difference between a Scrollbar and a ScrollPane?
168. What is a lightweight component?
169. What is a heavyweight component?
170. What is an applet?
171. Can you write a Java class that could be used both as an applet as well as an application?
172. What is Locale?
173. How will you load a specific locale?
174. What is a JavaBean?
175. What is the purpose of using the Java bean?
176. What do you understand by the bean persistent property?
177. What is RMI?
178. What is the purpose of stub and skeleton?
179. What are the steps involved to write RMI based programs?
180. What is the use of HTTP-tunneling in RMI?
181. What is JRMP?
182. Can RMI and CORBA based applications interact?
183. How to perform Bubble Sort in Java?
184. How to perform Binary Search in Java?
185. How to perform Selection Sort in Java?
186. How to perform Linear Search in Java?
187. How to perform merge sort in Java?
188. How to perform quicksort in Java?
189. Write a program in Java to create a doubly linked list containing n nodes.
190. Write a program in Java to find the maximum and minimum value node from a circular linked list.
191. Write a program in Java to calculate the difference between the sum of the odd level and even level nodes of a Binary Tree.
192. What is multithreading?
193. What is the thread?
194. Differentiate between process and thread?
195. What do you understand by inter-thread communication?
196. What is the purpose of wait() method in Java?
197. Why must wait() method be called from the synchronized block?
198. What are the advantages of multithreading?
199. What are the states in the lifecycle of a Thread?
200. What is the difference between preemptive scheduling and time slicing?
201. What is context switching?
202. Differentiate between the Thread class and Runnable interface for creating a Thread?
203. What does join() method?
204. Describe the purpose and working of sleep() method.
205. What is the difference between wait() and sleep() method?
206. Is it possible to start a thread twice?
207. Can we call the run() method instead of start()?
208. What about the daemon threads?
209. What is shutdown hook?
210. When should we interrupt a thread?
211. What is the synchronization?
212. What is the purpose of the Synchronized block?
213. Can Java object be locked down for exclusive use by a given thread?
214. What is static synchronization?
215. What is the difference between notify() and notifyAll()?
216. What is the deadlock?
217. How to detect a deadlock condition? How can it be avoided?
218. What is Thread Scheduler in java?
219. Does each thread have its stack in multithreaded programming?
220. How is the safety of a thread achieved?
221. What is race-condition?
222. What is the volatile keyword in java?
223. What do you understand by thread pool?
224. What are the main components of concurrency API?
225. What is the Executor interface in Concurrency API in Java?
226. What is BlockingQueue?
227. How to implement producer-consumer problem by using BlockingQueue?
228. What is the difference between Java Callable interface and Runnable interface?
229. What is the Atomic action in Concurrency in Java?
230. What is lock interface in Concurrency API in Java?
231. Explain the ExecutorService Interface.
232. What is the difference between Synchronous programming and Asynchronous programming regarding a thread?
233. What do you understand by Callable and Future in Java?
234. What is the difference between ScheduledExecutorService and ExecutorService interface?
235. Define FutureTask class in Java?
236. What is the Collection framework in Java?
237. What are the main differences between array and collection?
238. Explain various interfaces used in Collection framework?
239. What is the difference between ArrayList and Vector?
240. What is the difference between ArrayList and LinkedList?
241. What is the difference between Iterator and ListIterator?
242. What is the difference between Iterator and Enumeration?
243. What is the difference between List and Set?
244. What is the difference between HashSet and TreeSet?
245. What is the difference between Set and Map?
246. What is the difference between HashSet and HashMap?
247. What is the difference between HashMap and TreeMap?
248. What is the difference between HashMap and Hashtable?
249. What is the difference between Collection and Collections?
250. What is the difference between Comparable and Comparator?
251. What do you understand by BlockingQueue?
252. What is the advantage of Properties file?
253. What does the hashCode() method?
254. Why we override equals() method?
255. How to synchronize List, Set and Map elements?
256. What is the advantage of the generic collection?
257. What is hash-collision in Hashtable and how it is handled in Java?
258. What is the Dictionary class?
259. What is the default size of load factor in hashing based collection?
260. What do you understand by fail-fast?
261. What is the difference between Array and ArrayList?
262. What is the difference between the length of an Array and size of ArrayList?
263. How to convert ArrayList to Array and Array to ArrayList?
264. How to make Java ArrayList Read-Only?
265. How to remove duplicates from ArrayList?
266. How to reverse ArrayList?
267. How to sort ArrayList in descending order?
268. How to synchronize ArrayList?
269. When to use ArrayList and LinkedList?
270. What is JDBC?
271. What is JDBC Driver?
272. What are the steps to connect to the database in java?
273. What are the JDBC API components?
274. What are the JDBC statements?
275. What is the return type of Class.forName() method?
276. What are the differences between Statement and PreparedStatement interface?
277. How can we set null value in JDBC PreparedStatement?
278. What are the benefits of PreparedStatement over Statement?
279. What are the differences between execute, executeQuery, and executeUpdate?
280. What are the different types of ResultSet?
281. What are the differences between ResultSet and RowSet?
282. How can we execute stored procedures using CallableStatement?
283. What is the role of the JDBC DriverManager class?
284. What are the functions of the JDBC Connection interface?
285. What does the JDBC ResultSet interface?
286. What does the JDBC ResultSetMetaData interface?
287. What does the JDBC DatabaseMetaData interface?
288. Which interface is responsible for transaction management in JDBC?
289. What is batch processing and how to perform batch processing in JDBC?
290. What are CLOB and BLOB data types in JDBC?
291. What are the different types of lockings in JDBC?
292. How can we store and retrieve images from the database?
293. How can we store the file in the Oracle database?
294. How can we retrieve the file in the Oracle database?
295. What are the differences between stored procedure and functions?
296. How can we maintain the integrity of a database by using JDBC?
297. What is the JDBC Rowset?
298. What is the major difference between java.util.Date and java.sql.Date data type?
299. What does JDBC setMaxRows method do?

[Top Core Java Interview Questions and Answers in 2024 (edureka.co)](https://www.edureka.co/blog/interview-questions/java-interview-questions/)

1. Explain public static void main(String args[]) in Java.
2. Why pointers are not used in Java?
3. What are access modifiers in Java?
4. Define a Java Class.
5. What is Object Oriented Programming?
6. What are the main concepts of OOPs in Java?
7. What is the difference between break and continue statements?
8. Differentiate between static and non-static methods in Java.
9. What is constructor chaining in Java?
10. What is a Map in Java?
11. What is Polymorphism?
12. What is composition in Java?
13. What is a servlet?
14. What are the differences between Get and Post methods?
15. What is Request Dispatcher?
16. What are the differences between forward() method and sendRedirect() methods?
17. What is the life-cycle of a servlet?
18. How does cookies work in Servlets?
19. What are the differences between ServletContext vs ServletConfig?
20. What are the different methods of session management in servlets?
21. Name the different modules of the Spring framework.
22. List some of the important annotations in annotation-based Spring configuration.
23. Explain Bean in Spring and List the different Scopes of Spring bean.
24. Explain the role of DispatcherServlet and ContextLoaderListener.
25. What are the differences between constructor injection and setter injection?
26. What is autowiring in Spring? What are the autowiring modes?
27. What are some of the important Spring annotations?
28. How to integrate Spring and Hibernate Frameworks?
29. Name the types of transaction management that Spring supports.
30. What is Hibernate Framework?
31. What are the important benefits of using Hibernate Framework?
32. Explain Hibernate architecture.
33. What are the differences between get and load methods?
34. What are the advantages of Hibernate over JDBC?
35. What are the life-cycle methods for a jsp?
36. What are the JSP implicit objects?
37. What are the differences between include directive and include action?
38. How to disable caching on back button of the browser?
39. What are the different tags provided in JSTL?
40. How to disable session in JSP?
41. How to delete a Cookie in a JSP?
42. Explain the jspDestroy() method.
43. How is JSP better than Servlet technology?
44. What are the different categories of Java Design patterns?
45. Why should we not configure JSP standard tags in web.xml?
46. How will you use JSP EL in order to get the HTTP method name?
47. What is the difference between Error and Exception?
48. Will the finally block get executed when the return statement is written at the end of try block and catch block as shown below?
49. What are the important methods of Java Exception Class?
50. What is OutOfMemoryError in Java?
51. What are the different types of garbage collectors in Java?

[Top 50+ Core Java Interview Questions and Answers (2023) (softwaretestinghelp.com)](https://www.softwaretestinghelp.com/core-java-interview-questions/)

1. How does Java enable high performance?
2. Name the Java IDE’s?
3. What are the OOPs concepts?
4. What is Polymorphism?
5. Explain about Public and Private access specifiers.
6. Difference between Default and Protected access specifiers.
7. What is the meaning of Collections in Java?
8. What are all the Classes and Interfaces that are available in the collections?
9. What is meant by Ordered and Sorted in collections?
10. Explain the different lists available in the collection.
11. Explain about Set and their types in a collection.
12. Explain the Priority Queue.
13. What are the types of Exceptions?
14. What are the advantages of Exception handling?
15. What are the Exception handling keywords in Java?
16. What does the yield method of the Thread class do?
17. How to stop a thread in java? Explain about sleep () method in a thread?
18. When to use the Runnable interface Vs Thread class in Java?
19. Difference between start() and run() method of thread class.
20. What is the disadvantage of Synchronization?
21. What is SerialVersionUID?

[Top 80 Java Interview Questions and Answers [2023] (hackr.io)](https://hackr.io/blog/java-interview-questions)

1. What are Java IDEs?
2. Explain Typecasting.
3. What are the different types of typecasting?
4. Please explain Abstract class and Abstract method.
5. Write suitable code examples to demonstrate the use of final, final, and finalize.
6. Please compare serialization and deserialization.
7. Explain the concept of boxing, unboxing, autoboxing, and auto unboxing.
8. Take a look at the two code snippets below. What is the important difference between the two?
9. Write a program for string reversal without using an inbuilt function.
10. Write a program to delete duplicates from an array.
11. Write a program to reverse a number.
12. Write a program that implements binary search.
13. Write a program to check if a number is prime.
14. Write a program to print Fibonacci series.
15. Write a program to check if the given string is a palindrome.
16. Write a program to print the following pattern.
17. Write a program to swap two numbers.
18. Write a program to check if the given number is an Armstrong number.

[Top 50 Java Programming Interview Questions | DigitalOcean](https://www.digitalocean.com/community/tutorials/java-programming-interview-questions)

1. How do you swap two numbers without using a third variable in Java?
2. Write a Java program to check if a vowel is present in a string.
3. How do you check if a list of integers contains only odd numbers in Java?
4. How do you remove spaces from a string in Java?
5. How do you remove leading and trailing spaces from a string in Java?
6. How do you sort an array in Java?
7. How do you create a deadlock scenario programmatically in Java?
8. How can you find the factorial of an integer in Java?
9. How do you reverse a linked list in Java?
10. Write a Java program that illustrates merge sort.
11. Can you create a pyramid of characters in Java?
12. Write Java program that checks if two arrays contain the same elements.
13. How do you get the sum of all elements in an integer array in Java?
14. How do you find the second largest number in an array in Java?
15. How do you shuffle an array in Java?
16. How can you find a string in a text file in Java?
17. How do you print a date in specific format in Java?
18. How do you merge two lists in Java?
19. Write a Java program that sorts HashMap by value.
20. How do you remove all occurrences of a given character from an input string in Java?
21. How do you get distinct characters and their count in a string in Java?
22. Can you prove that a String object in Java is immutable programmatically?
23. Can you write some code to showcase inheritance in Java?
24. How do you show a diamond problem with multiple inheritance in Java?
25. How do you illustrate a try catch example in Java?
26. Write a Java program to show a NullPointerException.
27. How do you create a record in Java?
28. How do you create text blocks in Java?
29. Show an example of switch expressions and multi-label case statements in Java.
30. How do you compile and run a Java class from the command line?
31. How do you create an enum in Java?
32. How do you use the forEach() method in Java?
33. How do you write an interface with default and static method?
34. How do you create a functional interface?
35. Show an example of using lambda expressions in Java.
36. Guess the Output
37. Find 5 mistakes in the following code snippet.

<https://javarevisited.blogspot.com/2015/10/133-java-interview-questions-answers-from-last-5-years.html>

1. Can we make array volatile in Java?
2. Can volatile make a non-atomic operation to atomic?
3. What are practical uses of volatile modifier?
4. What guarantee volatile variable provides?
5. Which one would be easy to write? synchronization code for 10 threads or 2 threads?
6. How do you call wait() method? using if block or loop? Why?
7. What is false sharing in the context of multi-threading?
8. What is busy spin? Why should you use it?
9. How do you take thread dump in Java?
10. Is Swing thread-safe?
11. What is a thread local variable in Java?
12. Write wait-notify code for producer-consumer problem?
13. Write code for thread-safe Singleton in Java?
14. The difference between sleep and wait in Java?
15. What is an immutable object? How do you create an Immutable object in Java?
16. Can we create an Immutable object, which contains a mutable object?
17. What is the right data type to represent a price in Java?
18. How do you convert bytes to String?
19. How do you convert bytes to long in Java?
20. Can we cast an int value into byte variable? what will happen if the value of int is larger than byte?
21. There are two classes B extends A and C extends B, Can we cast B into C e.g. C = (C) B?
22. Which class contains clone method? Cloneable or Object?
23. Is ++ operator is thread-safe in Java?
24. Difference between a = a + b and a += b ?
25. Can I store a double value in a long variable without casting?
26. What will this return 3\*0.1 == 0.3? true or false?
27. Which one will take more memory, an int or Integer?
28. Can we use String in the switch case?
29. What is the size of int in 64-bit JVM?
30. A difference between WeakReference and SoftReference in Java?
31. How do WeakHashMap works?
32. What is -XX:+UseCompressedOops JVM option? Why use it?
33. How do you find if JVM is 32-bit or 64-bit from Java Program?
34. What is the maximum heap size of 32-bit and 64-bit JVM?
35. Explain Java Heap space and Garbage collection?
36. Can you guarantee the garbage collection process?
37. How do you find memory usage from Java program? How much percent of the heap is used?
38. What is a.hashCode() used for? How is it related to a.equals(b)?
39. What is a compile time constant in Java? What is the risk of using it?
40. Difference between poll() and remove() method?
41. The difference between LinkedHashMap and PriorityQueue in Java?
42. What is a couple of ways that you could sort a collection?
43. How do you print Array in Java?
44. LinkedList in Java is doubly or singly linked list?
45. Which kind of tree is used to implement TreeMap in Java?
46. How HashSet works internally in Java?
47. Write code to remove elements from ArrayList while iterating?
48. Can I write my own container class and use it in the for-each loop?
49. What is default size of ArrayList and HashMap in Java?
50. Is it possible for two unequal objects to have the same hashcode?
51. Can two equal object have the different hash code?
52. Can we use random numbers in the hashcode() method?
53. Why you need to override hashcode, when you override equals in Java?
54. What best practices you follow while writing multi-threaded code in Java?
55. Tell me few best practices you apply while using Collections in Java?
56. Can you tell us at least 5 best practice you use while using threads in Java?
57. Name 5 IO best practices?
58. Name 5 JDBC best practices your follow?
59. Name couple of method overloading best practices in Java?
60. Does SimpleDateFormat is safe to use in the multi-threaded program?
61. How do you format a date in Java? e.g. in the ddMMyyyy format?