Interview Question

Difference Between

1. HashMap/HashSet
2. HashMap/HashTable
3. Interface/Abstract
4. ArrayList/LinkedList
5. Enumeration/Iterator
6. Spring/SpringBoot
7. String/StringBuffer
8. StringBuffer/StringBuilder
9. Comparable and Comparator
10. HashSet and TreeSet
11. Hibernate and JDBC
12. Controller and RestController
13. Put and Post
14. Get and Post
15. Array and ArrayList
16. Final/finally/finalize
17. Equals/== operator
18. Compile time exception/runtime exception
19. Overload/Overriding
20. Aggressive Loading/Lazy Loading
21. @RequestParam/@PathVariable
22. Mutable/Immutable
23. Map/flatMap
24. CrudRepository/JPARepository
25. Heap/Stack memory

Collection Framework

1. Implementation of HashMap
2. How to iterate HashMap
3. How TreeSet sort elements internally
4. When we insert first element in set, what add() method return
5. Why only one null is stored as key in HashMap
6. What is concurrent HashMap
7. Deletion of the last element from ArrayList and LinkedList, performance wise which is best
8. Deletion of first duplicate element, performance wise which is good in collection
9. Is synchronization is used in HashMap

Java

1. What are the methods of Object class
2. What is Serialization
3. What is Transient
4. Which keyword is used when we build user defined exception – throw or throws and why
5. Why constructor is defined in abstract class if it can’t create object
6. How to create Thread
7. How to create immutable class
8. What is singleton and how to implement it
9. What is Marker Interface.
10. If Marker Interface have no member then how to use this.
11. Is it possible to write a program with try block only without catch and finally
12. A program including return statement inside try, catch and finally block. Which return statement will come on output file.
13. Why does StringBuffer and StringBuilder not override equals() or hashcode()
14. What is volatile
15. Which exception is handled in sleep()
16. What is synchronization
17. How many types of inheritance
18. How heap and stack memory utilizes
19. What is the use of final keyword in variable, method and class
20. What are shallow copy and deep copy (cloneable)
21. Why is the remove method faster in the linked list than in array
22. Lifecycle of Thread
23. In what condition finally block is used

Java 8

1. What are the features introduced in Java 8
2. Why Functional Interface is introduced
3. Why can’t we use Interface (java 7) instead of Functional Interface
4. What is default method and why is it required
5. What is Lambda Expression, how to write
6. What are static methods in Functional Interface
7. Can a functional Interface extend/inherit another interface
8. How does lambda expression relate to Functional Interface
9. What is an optional class and why is it required
10. What is java 8 stream
11. What are intermediate and terminal operations
12. What is the meaning of stateful and stateless in stream operation
13. How to convert List of List of elements in List of elements
14. What are predefined Functional Interfaces
15. What is serial execution and parallel execution

Spring Boot

1. What is Bean
2. What is Autowire and how it works
3. Which injection is flexible in autowiring setter injection or constructor injection
4. What is @PostConstruct and @PreDestroy
5. What is Spring AOP
6. What is IOC
7. What is dependency Injection
8. How many types of Bean Scope
9. What happen if we keep @Controller in Service class
10. What are the annotations are used in mapping
11. What happen if we write @RestController on repository class
12. What are the advantages of using Spring Boot
13. What does the @SpringBootApplication annotation do internally
14. What does @ComponentScan
15. What are all the server embedded in spring boot
16. How to change server in spring boot
17. What are the basics annotations spring boot offer
18. Is it possible to change the port of the embedded Tomcat server in spring boot
19. What is the default port of tomcat in spring boot
20. What is spring actuator
21. How to secure mapping (URL)
22. When JPARepository is used

Hibernate

1. What is ORM in hibernate
2. What are the advantages of hibernate over JDBC
3. What is difference between first level cache and second level cache
4. What is difference between get() and load() in hibernate session

Program

1. Palindrome
2. Armstrong
3. A program with Functional Interface with Lambda Expression
4. A program to fetch minimum/maximum element in Java 8 stream from array/list (integer/string/character)
5. Reverse String
6. A program to delete vowels from String
7. A program to reverse string only and special character must be in same position (ab@cd\*!&ef#) -> (fe@dc\*!&ba#)
8. Convert array into list
9. Reverse array/list
10. Sort student’s id/name/department using Comparable and Comparator in ascending and descending order
11. Factorial program using recursion