1. Test on Java, Spring and REST

**class a**

**{**

**public static void main(String args[])**

**{**

**byte b;**

**int i = 258;**

**b = (byte) i;**

**System.out.println(b);**

**}**

**}**

**What is the output of this Java code?**

A )

2

B )

0

C )

error: unsupported casting

D )

error: overflow on such casting

Skills

DesignAndCoding

  Update Skills



**2)**

**class a**

**{**

**public static void main(String args[])**

**{**

**char c1 = 'a';**

**char c2 = 'b';**

**System.out.println(c1+c2);**

**}**

**}**

**What is the output of this Java code?**

A )

195

B )

ab

C )

error: toString() required

D )

none of these

Skills

DesignAndCoding

  Update Skills



**3)**

**class a**

**{**

**public static void main(String args[])**

**{**

**char c = 'a';**

**c++;**

**System.out.println(""+c);**

**}**

**}**

**What is the output of this Java code?**

A )

98

B )

b

C )

error: char can't be an operand to ++

D )

none of these

Skills

DesignAndCoding

  Update Skills



**4)**

**In Java, which all are correct?**

A )

StringBuffer improves performance for string edits

B )

String is immutable

C )

StringBuffer is mutable

D )

all of these

Skills

DesignAndCoding

  Update Skills



**5)**

**Counter[] a;**

**//forgot to create the array**

**a[0] = new Counter("test");**

**This java code shows error as**

A )

variable a might not have been initialized

B )

variable a might be null

C )

variavle a refers to no object

D )

variable a declared but not defined

Skills

DesignAndCoding

  Update Skills



**6)**

**class a**

**{**

**public static void main(String args[])**

**{**

**boolean b = false;**

**System.out.println(b);**

**}**

**}**

**What is the output of this Java code?**

A )

0

B )

false

C )

error: need to convert boolean to Boolean for printing

D )

error: toString() can't be applied on boolean

Skills

DesignAndCoding

  Update Skills



**7)**

**for(int i=0; i<100; i+=2);**

**What is the time complexity of this loop?**

A )

O(logN)

B )

O(N2)

C )

O(N)

D )

O(NlogN)

Skills

Coding

  Update Skills



**8)**

**1. Potato cost more than Tomato.  
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Can't Say

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ProblemSolving

  Update Skills



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**How many times do the hands of a clock coincide in a day?**

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Skills

ProblemSolving

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**10)**

**Do we have any sub-linear time sorting algorithm? If yes, which one?**

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yes, quicksort

B )

no

C )

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Coding

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**Good hash functions don't let two input generate same output. But finding such a good hash function is difficult. Say, we did our best and found a hash function for our hash table implementation, which is fair for most cases but can't avoid collision. And for colliding inputs we chose to put them into an un-ordered list from which we can search them sequentially. This is most common since implementation is simpler. Now, in the worst case, what will be the time complexity of such a hash table?**

A )

O(N)

B )

O(1)

C )

O(Nlog N)

D )

O(logN)

Skills

Coding

  Update Skills



**12)**

**For a un-weighted graph, which method is guaranteed to find the path with fewest edges?**

A )

depth first search

B )

breadth first search

Skills

Coding

  Update Skills



**13)**

**class a**

**{**

**public static void main(String args[])**

**{**

**int N=8;**

**int k=0, x=N;**

**int i, j;**

**for (i=0; i<x; i++)**

**for (j=0; j<x; j++)**

**{**

**k++;**

**x=N/2;**

**}**

**System.out.println(k);**

**}**

**}**

**How many iterations this Java code will make?**

A )

16

B )

 10

C )

 8

D )

none of these

Skills

Coding

  Update Skills



**14)**

**Consider table:**

**Categories (CategoryID, CategoryName, Description)**

**If we need to list down category id, which query is bandwidth wise optimal?**

A )

SELECT \* FROM Categories;

B )

SELECT CategoryID FROM Categories;

C )

SELECT CategoryID, CategoryName, Description FROM Categories;

D )

all

Skills

DesignAndCoding

  Update Skills



**15)**

**Consider two tables**

**Employee(Mobile, EmpName, DeptNum),**

**Department(DeptName, DNum, ProductCode)**

**Consider this query:**

**select EmpName from (Employee left outer join Department on DeptNum = DNum);**

**If Employee table has 200 rows and Department table has 5 rows, what will be the minimum number of result rows?**

A )

200

B )

40

C )

1000

D )

0

E )

5

Skills

DesignAndCoding

  Update Skills



**16)**

**Which Linux command lists out threads running.**

A )

ps -e

B )

ps -a

C )

ps -f

D )

ps -eLf

Skills

DesignAndCoding

  Update Skills



**17)**

**In Linux process address space can be viewed using**

A )

pmap

B )

ps

C )

top

D )

htop

Skills

DesignAndCoding

  Update Skills



**18)**

**I along with my son, weighted 80 kg. Given that my weight is exactly 3 times that of my son, what is the weight of my son ?**

A )

10 Kg

B )

20 Kg

C )

30 Kg

D )

40 kg

Skills

ProblemSolving

  Update Skills



**19)**

**If South-East becomes North, North-East becomes West and so on, what will West become?**

A )

North

B )

East

C )

South East

D )

South West

Skills

ProblemSolving

  Update Skills



**20)**

**x + y = 10**

**x2 - y2 = 20**

**Value of x?**

A )

2

B )

4

C )

6

D )

8

Skills

ProblemSolving

  Update Skills



Question distribution

Skills

|  |  |
| --- | --- |
| Coding | **25% ( 5 Questions )** |
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1. Test on Java and Rest

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**public static void main(String args[])**

**{**

**byte b;**

**int i = 258;**

**b = (byte) i;**

**System.out.println(b);**

**}**

**}**

**What is the output of this Java code?**

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DesignAndCoding

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**}**

**What is the output of this Java code?**

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B )

ab

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Skills

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**public static void r(String s)**

**{**

**if (s.length() == 0)**

**return;**

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**r(s.substring(1));**

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**}**

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A )

checks palindrome

B )

reverses string

C )

prints a string

D )

prints string removing spaces

Skills

DesignAndCoding

  Update Skills



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**class a**

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**char c = 'a';**

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**What is the output of this Java code?**

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b

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error: char can't be an operand to ++

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none of these

Skills

DesignAndCoding

  Update Skills



**5)**

**class a**

**{**

**public static void main(String args[])**

**{**

**int a = 1, b = 0;**

**if (a == 0 | ++b > 0)**

**System.out.println(a/b);**

**}**

**}**

**What is the output of this Java code?**

A )

no output

B )

1

C )

0

D )

runtime error: divide by zero

Skills

DesignAndCoding

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**for(int i=0; i<100; i+=2);**

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C )

O(N)

D )

O(NlogN)

Skills

Coding

  Update Skills



**7)**

**If a RESTful Java class is annotated with**

**@Path("people/{name: [A-Z]\*}")**

**Which are possible accepted URL?**

A )

http://example.com/name/Gill

B )

http://example.com/Gill

C )

http://example.com/name/gill

D )

http://example.com/name/GILL

Skills

DesignAndCoding

  Update Skills



**8)**

**If a RESTful Java resource class, if no method is annotated with @HEAD which method will be invoked for HTTP HEAD request?**

A )

method annotated with @GET

B )

method annotated with @POST

C )

method annotated with @OPTIONS

D )

none of these

Skills

DesignAndCoding

  Update Skills



**9)**

**A RESTful Java project has a method**

**public String getUser(@PathParam("username") String userName)**

**Which one may be its class annotation?**

A )

@Path("/a/{username}")

B )

@Path("/username/{a}")

C )

@Path("/userName")

D )

@Path("/{userName}")

Skills

DesignAndCoding

  Update Skills



**10)**

**How to correct the following Java Restful web service implementation responding to GET request?**

**@GET  
@Produces("text/plain")  
public String getHtml() {  
return "<html><body><p>Hello</p></body></html>";**

A )

@Produces("text/xml")

B )

@Produces("html/plain")

C )

@Produces("text/html")

D )

@Produces("html/mime")

Skills

DesignAndCoding

  Update Skills



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Coding

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**int i, j;**

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**for (j=0; j<x; j++)**

**{**

**k++;**

**x=N/2;**

**}**

**System.out.println(k);**

**}**

**}**

**How many iterations this Java code will make?**

A )

16

B )

 10

C )

 8

D )

none of these

Skills

DesignAndCoding

  Update Skills



**15)**

**Which one is correct increasing order of time complexity?**

A )

O(N0), O(N2), O(N3), O(Nk)

B )

O(N), O(2N), O(Nk), O(logN)

C )

O(KN), O(NlogN), O(N!), O(Nk)

Skills

Coding

  Update Skills



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2. Potato cost less than Mango.  
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True

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False

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Can't Say

Skills

ProblemSolving

  Update Skills



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A )

24

B )

20

C )

22

D )

21

Skills

ProblemSolving

  Update Skills



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**I along with my son, weighted 80 kg. Given that my weight is exactly 3 times that of my son, what is the weight of my son ?**

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20 Kg

C )

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Skills

ProblemSolving

  Update Skills



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Skills

ProblemSolving

  Update Skills



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**x + y = 10**

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**Value of x?**

A )

2

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C )

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Skills

ProblemSolving

  Update Skills



Question distribution

Skills

|  |  |
| --- | --- |
| Coding | **25% ( 5 Questions )** |
| DesignAndCoding | **50% ( 10 Questions )** |
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1. Test on Core Java and Spring

**1)**

**In Spring, inner beans are \_\_\_\_\_\_\_ scoped?**

A )

prototype

B )

session

C )

singleton

D )

request

Skills

Java, Spring

  Update Skills



**2)**

**In Spring which design pattern is not related to beans?**

A )

Singleton Pattern

B )

Factory Pattern

C )

Prototype Pattern

D )

Adapter Pattern

Skills

Java, Spring

  Update Skills



**3)**

**final class a  
{  
public static void main(String args[])  
{  
int[] a = new int[]{5,9}, b = {5,9};  
System.out.print(a[0]);  
System.out.println(b[1]);  
}  
}**

**What is the output of this Java code?**

A )

59

B )

syntax error

C )

runtime error

D )

none of these

Skills

Java

  Update Skills



**4)**

**Which of the following is not a ApplicationContext implementation is Spring framework?**

A )

AnnotationConfigApplicationContext:

B )

AnnotationConfigWebApplicationContext

C )

XmlWebApplicationContext

D )

XmlFileSystemApplicationContext

Skills

Java, Spring

  Update Skills



**5)**

**Design pattern offers a**

A )

generic solution to a specific design problem

B )

specific solution to a specific design problem

C )

generic solution to a generic design problem

D )

specific solution to a generic design problem

Skills

DesignPattern

  Update Skills



**6)**

**Design patterns impact on**

A )

reusability

B )

flexibility

C )

portability

D )

all of these

Skills

DesignPattern

  Update Skills



**7)**

**public static void r(String s)**

**{**

**if (s.length() == 0)**

**return;**

**char c = s.charAt(0);**

**r(s.substring(1));**

**System.out.print(c);**

**}**

**What is does the Java code do?**

A )

checks palindrome

B )

reverses string

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D )

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Skills

Java

  Update Skills



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**}**

**}**

**What is the output of this Java code?**

A )

195

B )

ab

C )

error: toString() required

D )

none of these

Skills

Java

  Update Skills



**9)**

**class a**

**{**

**public static void main(String args[])**

**{**

**byte b;**

**int i = 258;**

**b = (byte) i;**

**System.out.println(b);**

**}**

**}**

**What is the output of this Java code?**

A )

2

B )

0

C )

error: unsupported casting

D )

error: overflow on such casting

Skills

Java

  Update Skills



**10)**

**class a**

**{**

**public static void main(String args[])**

**{**

**double y = 42.25;**

**System.out.println(y%10);**

**}**

**}**

**What is the output of this Java code?**

A )

2.25

B )

2

C )

compiler error: bad operand for %

D )

none of these

Skills

Java

  Update Skills



**11)**

**In Spring, which is an invalid annotation?**

A )

@Configuration

B )

@Bean

C )

@Optional

D )

@Autowired

Skills

Java, Spring

  Update Skills



**12)**

**Which is not a scope of Spring bean?**

A )

factory

B )

prototype

C )

singleton

D )

session

E )

global-session

Skills

Java, Spring

  Update Skills



**13)**

**Which are not correct regarding Spring bean life cycle?**

A )

Framework supports @PostConstruct and @PreDestroy annotations for defining post-init and pre-destroy methods

B )

to use @PostConstruct and @PreDestroy annotations bean should be of type org.springframework.context.annotation.CommonAnnotationBeanPostProcessor

C )

we can use destroy-method attribute in the spring bean configuration file to specify our pre-destroy method.

D )

post-init and pre-destroy methods can't throw exceptions

Skills

Java, Spring

  Update Skills



**14)**

**In Spring MVC, which controller class initializes the context?**

A )

Dispatcher

B )

DispatcherServlet

C )

ContextDispatcher

D )

controller class using @ContextController annotation

Skills

Java, Spring

  Update Skills



**15)**

**To handle exceptions in Spring MVC Framework, what are ways we have?**

A )

exception handler methods in our controller with @ExceptionHandler annotation

B )

class with @ControllerAdvice annotation to define global exception handler.

C )

HandlerExceptionResolver interface can be implemented to create global exception handler

D )

all of these

Skills

Java, Spring

  Update Skills



**16)**

**In Spring MVC, which class is responsible for rendering the view?**

A )

Dispatcher

B )

DispatcherServlet

C )

InternalResourceViewResolver

D )

ViewResolver

Skills

Java, Spring

  Update Skills



**17)**

**Choose the correct Interface implemented by spring bean handle incoming delegated HTTP request filtering by DelegatingFilterProxy**

A )

java.util.logging.FilterHttp

B )

java.util.logging.net

C )

java.util.logging.FilterHttps

D )

java.util.logging.Filter

Skills

Spring, Java

  Update Skills



**18)**

**Which type of collection is not supported by Spring?**

A )

<list>

B )

<set>

C )

<map>

D )

<properties>

Skills

Java, Spring

  Update Skills



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**Counter[] a;**

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C )

variavle a refers to no object

D )

variable a declared but not defined

Skills

Java

  Update Skills



**20)**

**In Java final members can't be changed after**

A )

initialization

B )

declaration

C )

definition

D )

construction

Skills

Java

  Update Skills



Question distribution

Skills

|  |  |
| --- | --- |
| DesignPattern | **10% ( 2 Questions )** |
| Java | **90% ( 18 Questions )** |
| Spring | **55% ( 11 Questions )** |

1. Test on Core Java, Spring and REST

**In Spring, inner beans are \_\_\_\_\_\_\_ scoped?**

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Java, Spring

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Skills

Java

  Update Skills



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Skills

Java

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Java

  Update Skills



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Java

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Java, Spring

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Skills

Spring, Java

  Update Skills



**14)**

**Which are not correct?**

A )

REST is a architectural style

B )

REST uses lower bandwidth than SOAP

C )

Both JAX-RS and JAX-WS API sets supports REST

D )

REST uses URI for exposing services

Skills

Java, RestAPI

  Update Skills



**15)**

**In a RESTful web service implementation, the Java method that processes HTTP GET request and responds, is annotated with**

A )

@Produces

B )

@PUT

C )

@HEAD

D )

none of these

Skills

Java, RestAPI

  Update Skills



**16)**

**If a Java Restful web service implementation responds to the URL:**[**http://example.com/people/Gill,**](http://example.com/people/Gill,)**which one is the possible implementation for this?**

A )

@Path("/people/{name}")  
public class peopleResource{}

B )

@Path("/people")  
public class peopleResource{}

C )

@Path("/people")  
public class people{}

D )

none of these

Skills

Java, RestAPI

  Update Skills



**17)**

**How to correct the following Java Restful web service implementation responding to GET request?**

**@GET  
@Produces("text/plain")  
public String getHtml() {  
return "<html><body><p>Hello</p></body></html>";**

A )

@Produces("text/xml")

B )

@Produces("html/plain")

C )

@Produces("text/html")

D )

@Produces("html/mime")

Skills

Java, RestAPI

  Update Skills



**18)**

**If a RESTful Java class is annotated with**

**@Path("people/{name: [A-Z]\*}")**

**Which are possible accepted URL?**

A )

http://example.com/name/Gill

B )

http://example.com/Gill

C )

http://example.com/name/gill

D )

http://example.com/name/GILL

Skills

Java, RestAPI

  Update Skills



**19)**

**Counter[] a;**

**//forgot to create the array**

**a[0] = new Counter("test");**

**This java code shows error as**

A )

variable a might not have been initialized

B )

variable a might be null

C )

variavle a refers to no object

D )

variable a declared but not defined

Skills

Java

  Update Skills



**20)**

**In Java final members can't be changed after**

A )

initialization

B )

declaration

C )

definition

D )

construction

5. Test on Core Java, Spring Frameworks and Unix

**In Spring, inner beans are \_\_\_\_\_\_\_ scoped?**

Write Answer

A )

prototype

B )

session

C )

singleton

D )

request

Skills

Java, Spring

Tags

#Basic

**Explanation:**

they are prototype scoped.

  Detailed View

  Update Skills

Edit



**2)**

**In Spring which design pattern is not related to beans?**

A )

Singleton Pattern

B )

Factory Pattern

C )

Prototype Pattern

Write Answer

D )

Adapter Pattern

Skills

Java, Spring

Tags

#Intermediate

**Explanation:**

Singleton Pattern is used for creating beans with default scope.  
Factory Pattern for bean factory classes  
Prototype Pattern for bean scopes

  Detailed View

  Update Skills

Edit



**3)**

**When system goes out of memory, what does Java do?**

Write Answer

A )

OutOfMemoryError

B )

OutOfMemoryException

C )

InternalError

D )

MemoryException

Skills

Java

Tags

#Basic

**Explanation:**

OutOfMemoryError is generated

  Detailed View

  Update Skills

Edit



**4)**

**final class a{**

**public static void main(String args[]){**

**int[] a = new int[]{5,9}, b = {5,9};**

**System.out.print(a[0]);**

**System.out.println(b[1]);**

**}**

**}**

**What is the output of this Java code?**

Write Answer

A )

59

B )

syntax error

C )

runtime error

D )

none of these

Skills

Java

Tags

#Basic

**Explanation:**

59 is printed, code is fine.

  Detailed View

  Update Skills

Edit



**5)**

**The purpose of "interface" keyword in Java is to support**

Write Answer

A )

interface inheritance

B )

implementation inheritance

C )

polymorphism

D )

hirarchical inheritance

Skills

Java

Tags

#Basic

**Explanation:**

interface inheritance

  Detailed View

  Update Skills

Edit



**6)**

**Which of the following is not a ApplicationContext implementation is Spring framework?**

A )

AnnotationConfigApplicationContext:

B )

AnnotationConfigWebApplicationContext

C )

XmlWebApplicationContext

Write Answer

D )

XmlFileSystemApplicationContext

Skills

Java, Spring

Tags

#Intermediate

**Explanation:**

FileSystemXmlApplicationContext is the correct ApplicationContext implementation

  Detailed View

  Update Skills

Edit



**7)**

**Frameworks are good place to find design patterns most.**

Write Answer

A )

true

B )

false

Skills

DesignPattern

Tags

#Basic

**Explanation:**

True! Because they need most flexibility.

  Detailed View

  Update Skills

Edit



**8)**

**Design pattern offers a**

Write Answer

A )

generic solution to a specific design problem

B )

specific solution to a specific design problem

C )

generic solution to a generic design problem

D )

specific solution to a generic design problem

Skills

DesignPattern

Tags

#Basic

**Explanation:**

It offers generic solution to a specific problem. The solution pattern can be applied to any application facing the same problem.

  Detailed View

  Update Skills

Edit



**9)**

**Design patterns impact on**

A )

reusability

B )

flexibility

C )

portability

Write Answer

D )

all of these

Skills

DesignPattern

Tags

#Basic

**Explanation:**

It helps in reusability, flexibility, portability and extensibility.

  Detailed View

  Update Skills

Edit



**10)**

**public static void r(String s)**

**{**

**if (s.length() == 0)**

**return;**

**char c = s.charAt(0);**

**r(s.substring(1));**

**System.out.print(c);**

**}**

**What is does the Java code do?**

A )

checks palindrome

Write Answer

B )

reverses string

C )

prints a string

D )

prints string removing spaces

Skills

Java

Tags

#Basic

**Explanation:**

using recursion, it reverses string

  Detailed View

  Update Skills

Edit



**11)**

**Consider table:**

**Categories (CategoryID, CategoryName, Description)**

**If we need to list down category id, which query is bandwidth wise optimal?**

A )

SELECT \* FROM Categories;

Write Answer

B )

SELECT CategoryID FROM Categories;

C )

SELECT CategoryID, CategoryName, Description FROM Categories;

D )

all

Skills

Database

Tags

#Basic

**Explanation:**

SELECT CategoryID FROM Categories;

it sends minimum amount of data

  Detailed View

  Update Skills

Edit



**12)**

**In Linux, block special files are present in**

Write Answer

A )

/dev

B )

/etc

C )

/usr

D )

/root

Skills

Linux

Tags

#Basic

**Explanation:**

/dev is place for device special files

  Detailed View

  Update Skills

Edit



**13)**

**class a**

**{**

**public static void main(String args[])**

**{**

**char c1 = 'a';**

**char c2 = 'b';**

**System.out.println(c1+c2);**

**}**

**}**

**What is the output of this Java code?**

A )

195

Write Answer

B )

ab

C )

error: toString() required

D )

none of these

Skills

Java

Tags

#Basic

**Explanation:**

195, sum of ascii values

  Detailed View

  Update Skills

Edit



**14)**

**class a**

**{**

**public static void main(String args[])**

**{**

**byte b;**

**int i = 258;**

**b = (byte) i;**

**System.out.println(b);**

**}**

**}**

**What is the output of this Java code?**

Write Answer

A )

2

B )

0

C )

error: unsupported casting

D )

error: overflow on such casting

Skills

Java

Tags

#Basic

**Explanation:**

2

int to byte casting results in integer value modulo 256

  Detailed View

  Update Skills

Edit



**15)**

**class a**

**{**

**public static void main(String args[])**

**{**

**byte a = 30;**

**byte b = 50;**

**int c = a \* b;**

**byte d = 40;**

**d = (byte)(d \* 2);**

**System.out.println(c);**

**System.out.println(d);**

**}**

**}**

**What is the output of this Java code?**

Write Answer

A )

1500

80

B )

220

80

C )

error: overflow on a\*b

D )

error: overflow on d\*2

Skills

Java

Tags

#Basic

**Explanation:**

1500

80

a and b are promoted to int while multiplication and result when assigned to an int causes no overflow, but multiplication of d\*2 can't be assigned to d without cast, since overflow will occur.

  Detailed View

  Update Skills

Edit



**16)**

**class a**

**{**

**public static void main(String args[])**

**{**

**double y = 42.25;**

**System.out.println(y%10);**

**}**

**}**

**What is the output of this Java code?**

Write Answer

A )

2.25

B )

2

C )

compiler error: bad operand for %

D )

none of these

Skills

Java

Tags

#Basic

**Explanation:**

2.25

  Detailed View

  Update Skills

Edit



**17)**

**Database views are**

Write Answer

A )

virtual tables

B )

updated by users time to time

C )

identical copy of physical tables

D )

created from physical tables only

Skills

Database

Tags

Not Mentioned

**Explanation:**

views are virtual tables. updated automatically by system, not a copy, can be created from other views as well

  Detailed View

  Update Skills

Edit



**18)**

**Which of the data formats are supported by SOAP services?**

Write Answer

A )

XML

B )

JSON

C )

Plain text

D )

HTML

Skills

webServices

Tags

#Basic

**Explanation:**

only XML supported

  Detailed View

  Update Skills

Edit



**19)**

**Which of these is a directory for storing information about web services**

A )

SOAP

Write Answer

B )

UDDI

C )

HTTP

D )

CGI

Skills

webServices

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



**20)**

**In Spring, which is an invalid annotation?**

A )

@Configuration

B )

@Bean

Write Answer

C )

@Optional

D )

@Autowired

Skills

Java, Spring

Tags

#Intermediate

**Explanation:**

@Optional is not a Spring annotation

6. Test on Java Spring, Maven, Jenkins and webservices

**In Spring, inner beans are \_\_\_\_\_\_\_ scoped?**

Write Answer

A )

prototype

B )

session

C )

singleton

D )

request

Skills

Java, Spring

Tags

Not Mentioned

**Explanation:**

they are prototype scoped.

  Detailed View

  Update Skills

Edit



**2)**

**If we intend to provide only setter-based dependency injection in Spring,**

A )

We must have a getter method

B )

we must use @Required annotation

Write Answer

C )

we must have a no-argument constructor

Write Answer

D )

we must have a no-argument static factory method to instantiate

Skills

Java, Spring

Tags

Not Mentioned

**Explanation:**

we must have a no-argument constructor or we must have a no-argument static factory method to instantiate

  Detailed View

  Update Skills

Edit



**3)**

**In Spring which design pattern is not related to beans?**

A )

Singleton Pattern

B )

Factory Pattern

C )

Prototype Pattern

Write Answer

D )

Adapter Pattern

Skills

Java, Spring

Tags

Not Mentioned

**Explanation:**

Singleton Pattern is used for creating beans with default scope.  
Factory Pattern for bean factory classes  
Prototype Pattern for bean scopes

  Detailed View

  Update Skills

Edit



**4)**

**In Spring MVC, which class is responsible for rendering the view?**

A )

Dispatcher

Write Answer

B )

DispatcherServlet

C )

InternalResourceViewResolver

D )

ViewResolver

Skills

Java, Spring

Tags

Not Mentioned

**Explanation:**

DispatcherServlet is responsible for rendering the view.

  Detailed View

  Update Skills

Edit



**5)**

**To handle exceptions in Spring MVC Framework, what are ways we have?**

A )

exception handler methods in our controller with @ExceptionHandler annotation

B )

class with @ControllerAdvice annotation to define global exception handler.

C )

HandlerExceptionResolver interface can be implemented to create global exception handler

Write Answer

D )

all of these

Skills

Java, Spring

Tags

Not Mentioned

**Explanation:**

all of these provide us ways to handle exceptions in Spring MVC

  Detailed View

  Update Skills

Edit



**6)**

**In Spring MVC, which controller class initializes the context?**

A )

Dispatcher

Write Answer

B )

DispatcherServlet

C )

ContextDispatcher

D )

controller class using @ContextController annotation

Skills

Java, Spring

Tags

Not Mentioned

**Explanation:**

DispatcherServlet initializes context

  Detailed View

  Update Skills

Edit



**7)**

**Which are not correct regarding Spring bean life cycle?**

A )

Framework supports @PostConstruct and @PreDestroy annotations for defining post-init and pre-destroy methods

B )

to use @PostConstruct and @PreDestroy annotations bean should be of type org.springframework.context.annotation.CommonAnnotationBeanPostProcessor

C )

we can use destroy-method attribute in the spring bean configuration file to specify our pre-destroy method.

Write Answer

D )

post-init and pre-destroy methods can't throw exceptions

Skills

Java, Spring

Tags

Not Mentioned

**Explanation:**

post-init and pre-destroy methods can throw exceptions, but can't take arguments

  Detailed View

  Update Skills

Edit



**8)**

**Regarding Spring bean life cycle, which are correct?**

Write Answer

A )

For specifying post-initialization method, we implement InitializingBean interface

Write Answer

B )

DisposableBean interface has one method

Write Answer

C )

we can use destroy-method attribute in the spring bean configuration file to specify our pre-destroy method.

Write Answer

D )

destroy() method takes zero arguments.

Skills

Java, Spring

Tags

Not Mentioned

**Explanation:**

all are correct

  Detailed View

  Update Skills

Edit



**9)**

**Which are various scopes of Spring bean?**

Write Answer

A )

factory

B )

prototype

C )

singleton

D )

session

E )

global-session

Skills

Java, Spring

Tags

Not Mentioned

**Explanation:**

factory is not a bean scope

  Detailed View

  Update Skills

Edit



**10)**

**Which of the following is not a ApplicationContext implementation is Spring framework?**

A )

AnnotationConfigApplicationContext:

B )

AnnotationConfigWebApplicationContext

C )

XmlWebApplicationContext

Write Answer

D )

XmlFileSystemApplicationContext

Skills

Java, Spring

Tags

Not Mentioned

**Explanation:**

FileSystemXmlApplicationContext is the correct ApplicationContext implementation

  Detailed View

  Update Skills

Edit



**11)**

**What is Maven's order of inheritance?**

A )

CLI parameters -> settings -> parent pom -> project pom

B )

project pom -> parent pom -> settings -> CLI parameters

Write Answer

C )

parent pom -> project pom -> settings -> CLI parameters

D )

settings -> parent pom -> project pom -> CLI parameters

Skills

maven

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



**12)**

**Choose the right sequence in which Maven looks for the resources**

A )

Remote-> Local -> Maven Central

B )

Maven Central -> Local -> Remote

Write Answer

C )

Local -> Remote - Maven Central

D )

Remote-> Maven Central - > Local

Skills

maven

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



**13)**

**In Maven**

**What is the default location of local repository?**

A )

~/m2./home/repo

Write Answer

B )

~/m2./repository

C )

~/.m2/repo

D )

~/m2./home/repository

Skills

maven

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



**14)**

**Which one of the below can help you determine which POM contains missing transitive dependency?**

Write Answer

A )

mvn -X

B )

mvn -A

C )

mvn -M

D )

mvn -R

Skills

maven

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



**15)**

**Which of the following is available as plugin in Jenkins?**

**Choose all that apply.**

Write Answer

A )

Join

Write Answer

B )

Green Balls

Write Answer

C )

Maven 2 project

Write Answer

D )

Copy artifact

Skills

Jenkins

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



**16)**

**Which architecture is suggested as scalable Jenkins environment?**

A )

One-Shot Build Architecture

B )

Automatic Builds Architecture

C )

Central Master Architecture

Write Answer

D )

Distributed Builds Architecture

Skills

Jenkins

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



**17)**

**You are asked to fetch configuration.xml of a folder {Jenkins} from a script or HTTP client using the Jenkins Remote API. The folder is located at the root of a Jenkins master. Which Path pattern is correct for fetching this configuration file?**

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B )

root/job/Jenkins/configuration.xml

C )

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root/Jenkins/configuration.xml

Skills

Jenkins

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



**18)**

**What does a Continuous Delivery pipeline consist of?**

A )

Commitments

B )

Tickets

Write Answer

C )

Stages

D )

Artifacts

Skills

Jenkins

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



**19)**

**Which of the following layer in Web Service Protocol Stack is responsible for centralizing services into a common registry?**

A )

Service Transport

B )

XML Messaging

Write Answer

C )

Service Discovery

D )

Service Description

Skills

webServices

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



**20)**

**Which of these is a directory for storing information about web services**

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Write Answer

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UDDI

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HTTP

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CGI

Skills

webServices

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B )

session

C )

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D )

request

Skills

Spring

Tags

Not Mentioned

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  Detailed View

  Update Skills

Edit



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we must have a no-argument constructor

Write Answer

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Skills

Spring

Tags

Not Mentioned

**Explanation:**

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  Detailed View

  Update Skills

Edit



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Spring

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  Detailed View

  Update Skills

Edit



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Skills

Spring

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  Detailed View

  Update Skills

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C )

HandlerExceptionResolver interface can be implemented to create global exception handler

Write Answer

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Skills

Spring

Tags

Not Mentioned

**Explanation:**

all of these provide us ways to handle exceptions in Spring MVC

  Detailed View

  Update Skills

Edit



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Spring

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Skills

Spring

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  Update Skills

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Spring

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  Detailed View

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Skills

Spring

Tags

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Skills

maven

Tags

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  Detailed View

  Update Skills

Edit



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maven

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  Detailed View

  Update Skills

Edit



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mvn -A

C )

mvn -M

D )

mvn -R

Skills

maven

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



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Write Answer

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Green Balls

Write Answer

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Write Answer

D )

Copy artifact

Skills

Jenkins

Tags

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Edit



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D )

root/Jenkins/configuration.xml

Skills

Jenkins

Tags

Not Mentioned

  Detailed View

  Update Skills

Edit



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Write Answer

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Stages

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SOAP

Write Answer

B )

UDDI

C )

HTTP

D )

CGI

Skills

webServices

8. Test on Java and REST API

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**{**

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**System.out.println(y%10);**

**}**

**}**

**What is the output of this Java code?**

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2.25

B )

2

C )

compiler error: bad operand for %

D )

none of these

Skills

Java

  Update Skills



**2)**

**class a**

**{**

**public static void main(String args[])**

**{**

**char c = 'a';**

**c++;**

**System.out.println(""+c);**

**}**

**}**

**What is the output of this Java code?**

A )

98

B )

b

C )

error: char can't be an operand to ++

D )

none of these

Skills

Java

  Update Skills



**3)**

**System.out.println("How are you?");**

**In this Java code, what is "out"?**

A )

class

B )

static variable

C )

package

D )

namespace

Skills

Java

  Update Skills



**4)**

**class a**

**{**

**public static void main(String args[])**

**{**

**int a = 1, b = 0;**

**if (a == 0 | ++b > 0)**

**System.out.println(a/b);**

**}**

**}**

**What is the output of this Java code?**

A )

no output

B )

1

C )

0

D )

runtime error: divide by zero

Skills

Java

  Update Skills



**5)**

**What is the complexity of matrix multiplication algorithm?**

A )

O(N)

B )

O(N2)

C )

O(N3)

D )

O(N!)

Skills

DataStructure

  Update Skills



**6)**

**Counter[] a;**

**//forgot to create the array**

**a[0] = new Counter("test");**

**This java code shows error as**

A )

variable a might not have been initialized

B )

variable a might be null

C )

variavle a refers to no object

D )

variable a declared but not defined

Skills

Java

  Update Skills



**7)**

**final class a  
{  
public static void main(String args[])  
{  
int[] a = new int[]{5,9}, b = {5,9};  
System.out.print(a[0]);  
System.out.println(b[1]);  
}  
}**

**What is the output of this Java code?**

A )

59

B )

syntax error

C )

runtime error

D )

none of these

Skills

Java

  Update Skills



**8)**

**class a**

**{**

**public static void main(String args[])**

**{**

**char c1 = 'a';**

**char c2 = 'b';**

**System.out.println(c1+c2);**

**}**

**}**

**What is the output of this Java code?**

A )

195

B )

ab

C )

error: toString() required

D )

none of these

Skills

Java

  Update Skills



**9)**

**class a**

**{**

**public static void main(String args[])**

**{**

**boolean b = false;**

**System.out.println(b);**

**}**

**}**

**What is the output of this Java code?**

A )

0

B )

false

C )

error: need to convert boolean to Boolean for printing

D )

error: toString() can't be applied on boolean

Skills

Java

  Update Skills



**10)**

**class a**

**{**

**public static void main(String args[])**

**{**

**int x = 0b1010;**

**System.out.println(x);**

**}**

**}**

**What is the output of this Java code?**

A )

0b1010

B )

10

C )

error: invalid character in literal

D )

1010

Skills

Java

  Update Skills



**11)**

**class a**

**{**

**public static void main(String args[])**

**{**

**int a = 1, b = 0;**

**if (a != 0 & ++b > 0)**

**System.out.println(a/b);**

**}**

**}**

**What is the output of this Java code?**

A )

no output

B )

1

C )

0

D )

runtime error: divide by zero

Skills

Java

  Update Skills



**12)**

**Which is not the way to create Servlet?**

A )

implementing the Servlet interface

B )

inheriting the GenericServlet class

C )

inheriting the HttpServlet class

D )

instantiating the HttpServlet class

Skills

Java

  Update Skills



**13)**

**Which of the step is performed when a service request comes to a Servlet?**

A )

Init() called passing ServletConfig object

B )

Servlet class loaded

C )

Service() method is called

D )

Servlet class is instantiated

Skills

Java

  Update Skills



**14)**

**Which are not correct?**

A )

REST is a architectural style

B )

REST uses lower bandwidth than SOAP

C )

Both JAX-RS and JAX-WS API sets supports REST

D )

REST uses URI for exposing services

Skills

Java, RestAPI

  Update Skills



**15)**

**If a RESTful Java class is annotated with**

**@Path("people/{name: [A-Z]\*}")**

**Which are possible accepted URL?**

A )

http://example.com/name/Gill

B )

http://example.com/Gill

C )

http://example.com/name/gill

D )

http://example.com/name/GILL

Skills

Java, RestAPI

  Update Skills



**16)**

**class a**

**{**

**public static void main(String args[])**

**{**

**int a = 42;**

**System.out.println(a>>2);**

**}**

**}**

**What is the output of this Java code?**

A )

2

B )

10

C )

10.5

D )

none of these

Skills

Java

  Update Skills



**17)**

**How to correct the following Java Restful web service implementation responding to GET request?**

**@GET  
@Produces("text/plain")  
public String getHtml() {  
return "<html><body><p>Hello</p></body></html>";**

A )

@Produces("text/xml")

B )

@Produces("html/plain")

C )

@Produces("text/html")

D )

@Produces("html/mime")

Skills

Java, RestAPI

  Update Skills



**18)**

**A RESTful Java project has a method**

**public String getUser(@PathParam("username") String userName)**

**Which one may be its class annotation?**

A )

@Path("/a/{username}")

B )

@Path("/username/{a}")

C )

@Path("/userName")

D )

@Path("/{userName}")

Skills

Java, RestAPI

  Update Skills



**19)**

**public static void r(String s)**

**{**

**if (s.length() == 0)**

**return;**

**char c = s.charAt(0);**

**r(s.substring(1));**

**System.out.print(c);**

**}**

**What is does the Java code do?**

A )

checks palindrome

B )

reverses string

C )

prints a string

D )

prints string removing spaces

Skills

DataStructure

  Update Skills



**20)**

**class a**

**{**

**public static void main(String args[])**

**{**

**double x = 3\_497.1\_0\_9;**

**System.out.println(x);**

**}**

**}**

**What is the output of this Java code?**

A )

3\_497.1\_0\_9

B )

3497.109

C )

error: invalid character underscore in double literal

D )

3497E109

Skills

Java

9. Test on Core Java, Spring and Rest

**In Spring, inner beans are \_\_\_\_\_\_\_ scoped?**

A )

prototype

B )

session

C )

singleton

D )

request

Skills

Java, Spring

  Update Skills



**2)**

**In Spring which design pattern is not related to beans?**

A )

Singleton Pattern

B )

Factory Pattern

C )

Prototype Pattern

D )

Adapter Pattern

Skills

Java, Spring

  Update Skills



**3)**

**Which of the following is not a ApplicationContext implementation is Spring framework?**

A )

AnnotationConfigApplicationContext:

B )

AnnotationConfigWebApplicationContext

C )

XmlWebApplicationContext

D )

XmlFileSystemApplicationContext

Skills

Java

  Update Skills



**4)**

**public static void r(String s)**

**{**

**if (s.length() == 0)**

**return;**

**char c = s.charAt(0);**

**r(s.substring(1));**

**System.out.print(c);**

**}**

**What is does the Java code do?**

A )

checks palindrome

B )

reverses string

C )

prints a string

D )

prints string removing spaces

Skills

Java

  Update Skills



**5)**

**class a**

**{**

**public static void main(String args[])**

**{**

**char c1 = 'a';**

**char c2 = 'b';**

**System.out.println(c1+c2);**

**}**

**}**

**What is the output of this Java code?**

A )

195

B )

ab

C )

error: toString() required

D )

none of these

Skills

Java

  Update Skills



**6)**

**class a**

**{**

**public static void main(String args[])**

**{**

**byte b;**

**int i = 258;**

**b = (byte) i;**

**System.out.println(b);**

**}**

**}**

**What is the output of this Java code?**

A )

2

B )

0

C )

error: unsupported casting

D )

error: overflow on such casting

Skills

Java

  Update Skills



**7)**

**class a**

**{**

**public static void main(String args[])**

**{**

**double y = 42.25;**

**System.out.println(y%10);**

**}**

**}**

**What is the output of this Java code?**

A )

2.25

B )

2

C )

compiler error: bad operand for %

D )

none of these

Skills

Java

  Update Skills



**8)**

**In Spring, which is an invalid annotation?**

A )

@Configuration

B )

@Bean

C )

@Optional

D )

@Autowired

Skills

Java, Spring

  Update Skills



**9)**

**Which is not a scope of Spring bean?**

A )

factory

B )

prototype

C )

singleton

D )

session

E )

global-session

Skills

Java, Spring

  Update Skills



**10)**

**Which are not correct regarding Spring bean life cycle?**

A )

Framework supports @PostConstruct and @PreDestroy annotations for defining post-init and pre-destroy methods

B )

to use @PostConstruct and @PreDestroy annotations bean should be of type org.springframework.context.annotation.CommonAnnotationBeanPostProcessor

C )

we can use destroy-method attribute in the spring bean configuration file to specify our pre-destroy method.

D )

post-init and pre-destroy methods can't throw exceptions

Skills

Java, Spring

  Update Skills



**11)**

**In Spring MVC, which controller class initializes the context?**

A )

Dispatcher

B )

DispatcherServlet

C )

ContextDispatcher

D )

controller class using @ContextController annotation

Skills

Java, Spring

  Update Skills



**12)**

**In Spring MVC, which class is responsible for rendering the view?**

A )

Dispatcher

B )

DispatcherServlet

C )

InternalResourceViewResolver

D )

ViewResolver

Skills

Java, Spring

  Update Skills



**13)**

**Choose the correct Interface implemented by spring bean handle incoming delegated HTTP request filtering by DelegatingFilterProxy**

A )

java.util.logging.FilterHttp

B )

java.util.logging.net

C )

java.util.logging.FilterHttps

D )

java.util.logging.Filter

Skills

Spring, Java

  Update Skills



**14)**

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Both JAX-RS and JAX-WS API sets supports REST

D )

REST uses URI for exposing services

Skills

Java, RestAPI

  Update Skills



**15)**

**In a RESTful web service implementation, the Java method that processes HTTP GET request and responds, is annotated with**

A )

@Produces

B )

@PUT

C )

@HEAD

D )

none of these

Skills

Java, RestAPI

  Update Skills



**16)**

**If a Java Restful web service implementation responds to the URL:**[**http://example.com/people/Gill,**](http://example.com/people/Gill,)**which one is the possible implementation for this?**

A )

@Path("/people/{name}")  
public class peopleResource{}

B )

@Path("/people")  
public class peopleResource{}

C )

@Path("/people")  
public class people{}

D )

none of these

Skills

Java, RestAPI

  Update Skills



**17)**

**How to correct the following Java Restful web service implementation responding to GET request?**

**@GET  
@Produces("text/plain")  
public String getHtml() {  
return "<html><body><p>Hello</p></body></html>";**

A )

@Produces("text/xml")

B )

@Produces("html/plain")

C )

@Produces("text/html")

D )

@Produces("html/mime")

Skills

Java, RestAPI

  Update Skills



**18)**

**If a RESTful Java class is annotated with**

**@Path("people/{name: [A-Z]\*}")**

**Which are possible accepted URL?**

A )

http://example.com/name/Gill

B )

http://example.com/Gill

C )

http://example.com/name/gill

D )

http://example.com/name/GILL

Skills

Java, RestAPI

  Update Skills



**19)**

**Counter[] a;**

**//forgot to create the array**

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**This java code shows error as**

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B )

variable a might be null

C )

variavle a refers to no object

D )

variable a declared but not defined

Skills

Java

  Update Skills



**20)**

**In Java final members can't be changed after**

A )

initialization

B )

declaration

C )

definition

D )

construction

Skills

Java