

Q1. I have received a mail from my client asking to summarize the consulting learning mindset in one or two things. What should be my reply ?

Options

- A healthy obsession with better ways to do things.
- A healthy obsession with better ways to do things. Being open to shifting your ideas and embracing different approaches.
- Being open to shifting your ideas and embracing different approaches.

Q2. Your manager heard about DevOps but he/she is not aware about it. He is asking you to let him know where and why DevOps is used. What you will say? ..

Options

- DevOps makes keeping track of health and performance issues easier.



- DevOps Configures a complete project with just a few entries - without a manual, without special knowledge.

- DevOps enables faster development of applications and easier maintenance of existing deployments.

Q3. My team was asked to describe the essential components of DevOps. Below are the descriptions given by my team members:

Ramesh: Automation ensures the process is repeatable and reliable.

Mahesh: Transparency gets employees to take an intimate look into what the others are doing, improving communications and business processes for all.

Suresh: Talented employees put business needs, efficiencies, and automation before their historical knowledge of how hardware works.

I was asked to decide who was correct in terms of devops. Whose statement should be selected as correct one?



Options

Ramesh

Mahesh

EVERYTHING WORKS.

I was asked to decide who was correct in terms of devops. Whose statement should be selected as correct one?

Options

- Ramesh
- Suresh

- Mahesh

- All of them are correct

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Q4. Below are the configuration details for our database:

Host: 192.168.99.100

Port: 27020

DatabaseName: company

CollectionName: employee

We want to export employee collection in a json file named as db.json. Find correct command to export collection in json file.

Options



- `mongoexport --host 192.168.99.100 --port`
- `27020 --db=company --collection=employee`
- `--out db.json`

- `mongoexport --host 192.168.99.100 --por`
- `27020 --db company --collection employee`
- `-type json --out db.json`

Options

mongoexport --host 192.168.99.100 --port
 27020 --db=company --collection=employee
--out db.json

 mongoexport --host 192.168.99.100 --port
 27020 --db company --collection employee -
-out db.json

mongoexport --host 192.168.99.100 --port
 27020 --db company --collection employee -
-type json --out db.json

 All above commands will export employee
collection into db.json file

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Q5. We are using mongodb for our application. Our database name is tutorial and collection name is batch.

> db.batch.find() shows below output on console:

```
{ "_id" : ObjectId("5fe36a8838c43b6caf56ccf1"), "name" : "Miley", "age" : 28, "address" : "pune" }
{ "_id" : ObjectId("5fe36a8838c43b6caf56ccf2"), "name" : "John", "age" : 23, "address" : "mumbai" }
{ "_id" : ObjectId("5fe36a8838c43b6caf56ccf3"), "name" : "Emiley", "age" : 25, "address" : "punjab" }
{ "_id" : ObjectId("5fe36a8838c43b6caf56ccf4"), "name" : "Sammy", "age" : 26, "address" : "bangalore" }
{ "_id" : ObjectId("5fe36a8838c43b6caf56ccf5"), "name" : "Lisa", "age" : 21, "address" : "indore" }
{ "_id" : ObjectId("5fe36a8938c43b6caf56ccf6"), "name" : "Tom", "age" : 26, "address" : "indore" }
```



You have to find valid command to produce below output on console:

```
{ "name" : "Lisa" }
{ "name" : "Tom" }
```

Options

```
{ "name" : "Lisa" }  
{ "name" : "Tom" }
```

Options

- db.batch.find({address: "indore"}, {_id: 0, name: 1});
- db.batch.find({address: "indore"}, {_id: 1, name: 0});
- db.batch.find({address: "indore"}, {name: 1}).pretty();

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Q6. Mockito provides two different syntaxes for creating stubs like:

doReturn and thenReturn

Both these methods setup stubs and can be used to create/setup stubs and could be used interchangeably. But they do differ in their behavior.

Assume a method getItemDetails on mockedItemService which returns an object of type ItemSku.

I am writing following 4 code instructions for mocking.

- 1)when(mockedItemService.getItemDetails(123)).thenReturn(new ItemSku());
- 2)when(mockedItemService.getItemDetails(123)).thenReturn(expectedPrice);
- 3)doReturn(expectedPrice).when(mockedItemService.getItemDetails(123));
- 4)doReturn(new ItemSku()).when(mockedItemService.getItemDetails(123));

What is the possible behavior of each one?

Options

- 1)compiles successfully 2)compiles
 successfully 3)compiles successfully
4)compiles successfully

- 1)compiles successfully 2)throw compile time
 exception 3)throw compile time exception
4)compiles successfully

- 1)compiles successfully 2)throw compile time
 exception 3)compiles successfully 4)compiles successfully

- 1)compiles successfully 2)compiles
 successfully 3)throw compile time exception
4)compiles successfully

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Q7. If you want to make radical changes to your team's project and don't want to impact the rest of the team, you should implement your changes in

Options

- a tag.
- the root.
- a branch.

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Q8. consider below js code:

```
var a = 4, b = 5, c = 6;  
var sum = (function(a, b){  
    return a+b;  
})(b,c);  
  
console.log("Result is :" +sum)  
console.log('Result is :' +sum);
```

Below are the used eslint rules:

```
"rules": {  
    "quotes": ["error", "double"],  
    "semi": ["error", "always"],  
    "no-console": ["error"]  
}
```

```
"no-console": ["error"]
```

```
}
```

We are running eslint rules with command
\$ eslint ./

Find output of above command.



Options

- error Unexpected console statement no-console
- error Strings must use doublequote quotes
- error Unexpected console statement no-console
- error Missing semicolon semi

- error Unexpected console statement no-console
- error Strings must use doublequote quotes
- error Missing semicolon semi

Q9. A company indexes all of its Amazon CloudWatch Logs on Amazon ES and uses Kibana to view a dashboard for actionable insight. The company wants to restrict user access to Kibana by user. Which actions can be taken to meet this requirement? (Choose two.)

Options

Create a proxy server with user authentication in an Auto Scaling group, and restrict access of the Amazon ES endpoint to an Auto Scaling group tag

Create a proxy server with AWS IAM user, and restrict access of the Amazon ES endpoint to the IAM user.

Create a proxy server with user authentication and an Elastic IP address, and restrict access of the Amazon ES endpoint to the IP address.

Use AWS SSO to offer user name and password protection for Kibana.

- Create a proxy server with user authentication in an Auto Scaling group, and restrict access of the Amazon ES endpoint to an Auto Scaling group tag
-
- Create a proxy server with AWS IAM user, and restrict access of the Amazon ES endpoint to the IAM user.
-
- Use Amazon Cognito to offer user name and password protection for Kibana.
-
- Create a proxy server with user authentication and an Elastic IP address, and restrict access of the Amazon ES endpoint to the IP address.
-
- Use AWS SSO to offer user name and password protection for Kibana.
-

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Q10. Consider the bellow snap:\$ curl 'http://localhost:9090/api/v1/query?query=up&time=2015-07-01T20:10:51.781Z'

```
{  
  "status" : "success",  
  "data" : {  
    "resultType" : "vector",  
    "result" : [  
      {  
        "metric" : {  
          "__name__" : "up",  
          "job" : "prometheus",  
          "instance" : "localhost:9090"  
        },  
        "value": [ 1435781451.781, "1" ]  
      },  
      {  
        "metric" : {  
          "__name__" : "up",  
          "job" : "prometheus",  
          "instance" : "localhost:9090"  
        },  
        "value": [ 1435781451.781, "1" ]  
      }  
    ]  
  }  
}
```



```
    value: [ 1435/81451.781, "0" ]
```

```
}
```

```
]
```

```
}
```

} What Prometheus is going to do if we try to execute this code?

Options

- Evaluates the expression up at the time 2015-07-01T20:10:51.781Z:
- Log the expression job at the time 2015-07-01T20:10:51.781Z:

- Evaluates the expression job at the time 2015-07-01T20:10:51.781Z:
- Log the expression up at the time 2015-07-01T20:10:51.781Z:

Q11. What Logstash will do if we run the bellow code? input {

```
file {  
    path => "/tmp/*_log"  
}  
  
filter {  
    if [path] =~ "access" {  
        mutate { replace => { type => "apache_access" } }  
        grok {  
            match => { "message" => "%{COMBINEDAPACHELOG}" }  
        }  
        date {  
            match => [ "timestamp" , "dd/MMM/yyyy:HH:mm:ss Z" ]  
        }  
    } else if [path] =~ "error" {  
        mutate { replace => { type => "apache_error" } }  
    }  
}
```

```
output {  
    elasticsearch { hosts => ["localhost:9200"] }  
    stdout { codec => rubydebug }  
}
```

Options

- Labels all events using the type field, but doesn't actually parse the error
- Labels all events using the type field, and parse the random files

- Labels all events using the type field, and parse the error
- Log all events using the type field, and parse the random files

Q12. Kibana aggregation is collection of documents or a set of documents obtained from a particular search query or filter. There are two different types of aggregations in Kibana:

- Bucket Aggregation
- Metric Aggregation

Map the functionality supported by both:



Options

- Date Range:Bucket Aggregation
- Sum:Metric Aggregation Filters:Bucket Aggregation
- Histogram:Bucket Aggregation
- Average:Metric Aggregation IPv4
- Range:Bucket Aggregation Min:Metric

- Date Range:Metric Aggregation Sum:Bucket Aggregation
- Filters:Metric Aggregation Histogram:Metric Aggregation
- Average:Bucket Aggregation IPv4
- Range:Metric Aggregation Min:Bucket Aggregation Range:Metric Aggregation



Map the functionality supported by both:

Options



- Date Range:Bucket Aggregation Sum:Metric
- Aggregation Filters:Bucket Aggregation
- Histogram:Bucket Aggregation
- Average:Metric Aggregation IPv4
- Range:Bucket Aggregation Min:Metric
- Aggregation Range:Bucket Aggregation
- Terms:Bucket Aggregation Count:Metric
- Aggregation Significant Terms:Bucket Aggregation
- Max:Metric Aggregation

- Date Range:Metric Aggregation
- Aggregation Filters:Metric Aggregation
- Histogram:Metric Aggregation
- Average:Bucket Aggregation IPv4
- Range:Metric Aggregation Min:B
- Aggregation Range:Metric Aggregation
- Terms:Metric Aggregation Count:M
- Aggregation Significant Terms:M
- Aggregation Max:Bucket Aggrega

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Q13. We have multiple criteria while working with JUnit. Among the following criterias the most exhaustive one which requires that inside each decision, all combinations of conditions are tested is:

Options

- Redundant Condition/decision coverage
- Multiple condition coverage
- Modified Condition/decision coverage
- Lossless Condition/decision coverage

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Q14. How can a method be made to run before the execution of every test case?

Options

- Annotate the method with @Before
- Annotate the method with a @BeforeClass
- Prefix the method name with startfirst
- Such a method cannot be made

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Q15. The _____ makes easy work out of managing all the API calls to our serverless backends. We had challenges with scaling and consolidation of different API call types prior to implementing the _____; not only we resolved the issues, but we have experienced improvement in API management by using a single platform that is easily accessible.

Find the correct option to complete the above statement.

Options

Subnets

Security Groups

API Gateway

Load balancer



Q16. Consider below scenarios:

Scenario 1:

You have an online store with only a server. The site will provide a display where you can choose a product from. When you submit a query, the site performs a lookup and returns an HTML result back to its client. The server sends your query directly to the database.

Scenario 2:

Server will generate the results without sending the request to the database directly. This allows a real-time query where a second client can access the same info and receive real time, reliable information without sending query to the database. The server basically acts as an intermediate between the database and the Scenario 1 server.

What type of server is being used in which scenario ?

Server will generate the results without sending the request to the database directly. This allows a real-time query where a second client can access the same info and receive real time, reliable information without sending query to the database. The server basically acts as an intermediate between the database and the Scenario 1 server.

What type of server is being used in which scenario ?

Options

- Scenario 1 is using application server and Scenario 2 is using web server
- For both situations web server is used

- Scenario 1 is using web server and Scenario 2 is using application server
- For both situations application server is used

Q17. Below is the list of few important RESTful API Response Codes.

- A- 201
- B- 400
- C- 405
- D- 403
- E- 204
- F- 500

Below are the description for above response codes in random order.

- 1- Internal Server Error
- 2- No Content
- 3- Method Not Allowed
- 4- Bad Request
- 5- Created
- 6- Forbidden

- 4- Bad Request
- 5- Created
- 6- Forbidden

Find correct set of pair where response codes are arranged with their respective description.

Options

- A-5, B-6, C-3, D-4, E-2, F-1
- A-5, B-4, C-3, D-6, E-2, F-1
- A-2, B-4, C-3, D-6, E-5, F-1
- A-2, B-1, C-3, D-4, E-5, F-6

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Q18. We sent below rest request to server:

```
POST http://localhost:3000/tutorials  
content-type: application/json
```

```
{"title": "Html Media", "author": "IIHT", "duration": 140, "level": "intermediate" }
```

And below was the response received from server:

```
HTTP/1.1 201 Created  
... // headers
```

```
{  
  "title": "Html Media".
```

```
"id": 1  
}
```

Now we want to update title from "Html Media" to "Html Audio_Video" and remaining data must not be changed where id is 1.

What should be the standard request to achieve same ?



Options

- PUT http://localhost:3000/tutorials/1
 content-type: application/json { "title": "Html audio-video" }

- PATCH http://localhost:3000/tutorials/1
 content-type: application/json { "title": "Html audio-video" }

POST http://localhost:3000/tutorials/1

POST http://localhost:3000/tutorials content-

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Q19. Binary Search Tree is a Binary Tree with additional properties given in the options.

Find the option which is not a valid additional property for binary search.

Options

- The left subtree of a node contains only nodes with keys less than the node's key.
- The left and right subtree each must also be a binary search tree.

- The right subtree of a node contains only nodes with keys greater than the node's key.
- None

Q20. _____ can be used to remove duplicates from a set of elements.

_____ can also be used to find frequency of all items.

_____ can be used in any situation where we want search() insert() and delete() in O(1) time.

Find the correct option to complete all above statements.

Options

Heap

Hashing

Matrix

Maps

Q21. Consider below code to find the time complexity:

```
String s = "";
int n = 5;
for (int r = 1; r <= n; r++) {
    for (int c = 1; c <= r; c++) {
        s += "* ";
    }
    for (int c = 1; c <= n-r; c++) {
        s += ". ";
    }
    for (int c = 1; c <= n-r; c++) {
        s += ". ";
    }
    for (int c = 1; c <= r; c++) {
        s += "* ";
    }
}
```



```
}  
print(s);
```

Options

O(N)

O(N * Sqrt(N))

 O(N*log(N))

O(N*N)

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Q22. We have two tables in database (student and address). Consider below sql structure

```
create table Student(  
    id int primary key auto_increment,  
    name varchar(50),  
    addressId int
```

```
create table Address(  
    id int primary key auto_increment,  
    city varchar(50),  
    pin varchar(10)  
);
```

```
insert into address(city, pin) values  
("tokyo" "124525")
```

to fulfil the requirement.

Options

- `select s.name, a.pin from student as s inner
join address as a on a.id = s.addressId where
a.city = 'tokyo';`

- `select s.name, a.pin from student as s inner
join address as a on a.id == s.addressId
where a.city = 'tokyo';`

- `select s.name, a.pin from student as s inner
join address as a on a.id = s.addressId where
a.city == 'tokyo';`

- `select s.name, a.pin from student as s inner
join address as a on a.id == s.addressId
where a.city == 'tokyo';`

Q23. Consider below table data from movies table.

| Id | Title | Director | Year | Length_minutes |
|----|-----------------|----------------|------|----------------|
| 1 | Toy Story | John Lasseter | 1995 | 81 |
| 2 | Monsters, Inc. | Pete Docter | 2001 | 92 |
| 3 | Finding Nemo | Andrew Stanton | 2003 | 107 |
| 4 | The Incredibles | Brad Bird | 2004 | 116 |
| 5 | Cars | John Lasseter | 2006 | 117 |
| 6 | Ratatouille | Brad Bird | 2007 | 115 |
| 7 | WALL-E | Andrew Stanton | 2008 | 104 |
| 8 | A Bug's Life | John Lasseter | 1998 | 95 |
| 9 | Demo Movie | Mark John | 2004 | 92 |

Find correct sql query to find all movies directed by John after year 2000.

Options

- select title from movies where year > 2000
and UPPER(director) LIKE UPPER('%john%');
- select title from movies where year > 2000
and director LIKE '%john%';
- Queries as A and B will fulfull the requirement.

- `select title from movies where year > 2000`
- `and LOWER(director) LIKE LOWER('%john%');`
- All above queries are same and will fulfull the requirement.

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Q24. Computer systems are often used to store large amounts of data from which individual records must be retrieved according to some search criterion. Thus the efficient storage of data to facilitate fast searching is an important issue.

However, if we place our elements in an array and sort them in either order on the key first, then we can obtain much better performance with an algorithm called _____.

Options

- Sequential Search
- Binary Search
- Direct Search
- Bubble Search

Q25. Find the option which is not a valid way to activate maven build profile.

Options

- Explicitly using command console input
- Through maven settings
- Via OS Settings
- Via a build artifact repository manager

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Q26. We have below table in sql.

```
create table Country(  
country_id varchar(10) not null,  
country_name varchar(20),  
region_id int
```



We are running below queries to save country in country table. But one/more query(s) are getting failed. Find the failed query.



1. insert into country(country_id, country_name) values('C0001', 'India');
2. insert into country(region_id, country_name) values(1003, 'USA');
3. insert into country(region_id, country_id) values(1002, 'C0003');
4. insert into country(country_id) values('C0004');

1. insert into country(country_id, country_name) values('C0001', 'India');
2. insert into country(region_id, country_name) values(1003, 'USA');
3. insert into country(region_id, country_id) values(1002, 'C0003');
4. insert into country(country_id) values('C0004');

Options

Only 1

Only 2

Only 4

1 & 4

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Q27. Which one is the correct order for SQL Query Execution ?

Options

Follow order of query execution



FROM->WHERE->HAVING->GROUP BY->SELECT->ORDER BY->LIMIT

FROM->WHERE->SELECT->DISTINCT->GROUP BY->ORDER BY->LIMIT

FROM->SELECT->WHERE->GROUP BY->HAVING->LIMIT

FROM->WHERE->GROUP BY->HAVING->SELECT->ORDER BY



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Q28. What allows the programmer to destroy an object?

Options

- When an "System.gc();" gets executed, current instance will be destroyed.
- Objects can be garbage collected if placed in the heap and Runtime.getRuntime().gc(); method called.
- Programmer can never destroy an object.
- Programmer can only request to destroy and JVM will destroy Object.

Q29. Let's consider a simple example with two classes' student and address where the required field in student is only name and the required fields in address are city and pin. The task is to find the ZIP code of the student with the given id. If any of the non-required values are missing, then an empty string should be returned. Assume that a StudentRepository is also provided/written.

Find the correct way to implement this task when the requested values are not guaranteed from the repositories.

Options

public String findZip(String studentId) {
 Student student =
 studentRepository.findById(studentId);
 if(student != null) { Address address =
 student.getAddress(); if(address != null) {

public String findZipCode(String studentId) {
 return studentRepository.findById(studentId)
 .flatMap(Student::getAddress)
 .flatMap(Address::getZipCode) .orElse(""); }

- Student student =
studentRepository.findById(studentId);
if(student != null) { Address address =
student.getAddress(); if(address != null) {
String zipCode = address.getZipCode();
if(zipCode != null) { return zipCode; } } return
""; }
- public String findZipCode(String studentId)
Optional<Student> optStudent =
studentRepository.findById(studentId);
if(optStudent.isPresent()) { Student student =
optStudent.get(); Optional<Address>
optAddress = student.getAddress();
if(optAddress.isPresent()) { Address address
= optAddress.get(); return
address.getZipCode().orElse(""); } } return "";
- return studentRepository.findById(studentId).
.flatMap(Student::getAddress)
.flatMap(Address::getZipCode).orElse("");
 - All above works

Q30. Consider below code and find the output:

```
ArrayList names = Arrays.asList("Tom", "Miley", "Mark"); // line 1
```

```
for(int i=0;i
```

Options

- line 1: compilation problem
- line 2:
java.lang.UnsupportedOperationException
- No error/exception and below is the output
on console: Tom Miley Mark
- line 2: java.lang.ClassCastException

Q31. Consider below code and find the output:

```
public static void main(String[] args) {  
    try {  
        test();  
    } catch (Exception ex) {  
        System.err.print("exception1"); // line 1  
    }  
    System.out.print("end");  
}  
  
static void test() throws Error { // line 2  
    if (true)  
        throw new Exception("exception 2"); // line 3  
    System.out.print("test"); // line 4  
}
```

```
    throw new Exception("exception 2"); // line 3  
    System.out.print("test"); // line 4  
}
```

Options

- testend
- Compilation fails at line 2.
- Compilation fails at line 1.
- Compilation fails at line 3.

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Q32. Followings are the major tasks of Test Analysis and Design Activity. Arrange them in correct order.

1. Identify and prioritize test conditions
2. Design and prioritize the test
3. Identify the data used for test procedure
4. Review the test basis
5. Evaluate testability of test basis
6. Design the test environment set up and identify any required infrastructure and tools

→ Options

4,5,3,6,2,1

4,5,1,2,6,3

4,5,2,1,3,6

4,5,1,2,3,6

Q33: Your web application allows users to download their account statements in PDF format. What is the most secure way to implement this functionality?

Options

- Store all PDFs in an obscure directory on the web server and provide a link to the correct PDF depending on the user.

- Generate the PDF on the fly, store it in memory on the server, and send the bytes of the PDF to the browser directly (via 200 response).

Generate the PDF on the fly, write it to a temporary directory on the server, and redirect the browser to that location (via 302 response).

Store the PDFs in a database and retrieve the correct PDF by looking at the identifier/primary key provided in the HTTP request.

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Q34. Empirical estimation models are typically based on

Options

- expert judgement based on past project experiences
- regression models derived from historical project data

- refinement of expected value estimation
- trial and error determination of the parameters and coefficients

Q35. In order to explain "Unit Testing", select the correct statement.

Options

- Unit Testing is the first level of software testing and is performed after Integration Testing. Though unit testing is normally performed after coding, sometimes, specially in test-driven development (TDD), automated unit tests are written prior to coding.
-

A unit is the smallest testable part of any software. It usually has one or a few inputs and usually a single output. In procedural programming, a unit may be an individual program, function, procedure, etc. In object-oriented programming, the smallest unit is a method, which may belong to a base / super class, abstract class or derived / child class. (Some treat a module of an application as a unit. This is to be discouraged as there will probably be many individual units within

Q36. Select the correct statement.

Options

- Unit testing is a testing method by which
- software modules are tested to determine if they are ready to use.

- Unit Testing is executed by the developer,
- whereas Integration Testing is performed by the testing team.

Unit Testing combines different different

- parts of the program as a single unit and test as a group to see they are working fine.

Unit Testing is a kind of black box testing.

- whereas Integration Testing is a kind of white box testing.

Q37. Which model is used to compute the effort required to integrate reusable components or program code that is automatically generated by design or program translation tools?

Options

- An application-composition model
- A reuse model
- A post-architecture model
- An early design model

Q38. Find the option where PMD and SonarQube features are listed correctly.

Options

- PMD: - Supports multiple languages -
Enforce a coding standard for your codebase
- Built-in checks
Sonarqube: - Multi-language - Detect tricky issues - Security analysis

- PMD: - Supports multiple languages -
Enforce a coding standard for your codebase
- Detect tricky issues
Sonarqube: - Built-in checks - Multi-language - Security analysis

- PMD: - Multi-language - Detect tricky issues - Security analysis
- Sonarqube: - Supports multiple languages - Enforce a coding standard for your codebase - Built-in checks

- PMD & Sonarqube: - Supports multiple languages - Enforce a coding standard for your codebase - Built-in checks - Multi-language - Detect tricky issues - Security analysis

Q39. We have below greet method in java class:

```
public String greet(String n) {  
    return "Welcome " + (n.charAt(0) + "").toUpperCase() + (n.substring(1)).toLowerCase();  
}
```

We are running below pmd command to run code analyzer. Below is the output of pmd (in cmd):

command:

```
$ pmd.bat -d ./src -R rulesets/java/quickstart.xml -f text
```



output:

```
\src\main\java\com\demo\Greeting.java:7:  UseLocaleWithCaseConversions: When doing a  
String.toLowerCase()/toUpperCase() call, use a Locale  
\src\main\java\com\demo\Greeting.java:7:  UseLocaleWithCaseConversions: When doing a  
String.toLowerCase()/toUpperCase() call, use a Locale
```

Find the correct code so that above command will not give any error message.

\src\main\java\com\demo\Greeting.java:7: UseLocaleWithCaseConversions: When doing a String.toLowerCase()/toUpperCase() call, use a Locale

\src\main\java\com\demo\Greeting.java:7: UseLocaleWithCaseConversions: When doing a String.toLowerCase()/toUpperCase() call, use a Locale

Find the correct code so that above command will not give any error message.

Options 

public String greet(String n) { String string1 =
n.charAt(0) + ""; String string2 =
 n.substring(1); return "Welcome " +
string1.toUpperCase() +
string2.toLowerCase(); }

public String greet(String n) { return
"Welcome " + (n.charAt(0) +
 "").toUpperCase(Locale.ENGLISH) +
(n.substring(1)).toLowerCase(Locale.ENGLIS
H); }

Q40. Read A,B

If $A \geq 2$

Print $A+B$

else

Print $A-B$

EndIf

If $B < 1$

Print $B-A$

End

For the above algorithm what will be the minimum number of test cases required to achieve 100% Statement Coverage and Decision Coverage?

Options

SC=2.DC=2

SC=1.DC=3

Q41. Let's assume we have a website running on

<http://www.mywebsite.com>

Let's also suppose that the web server is vulnerable to path traversal attack. This allows an attacker to use special character sequences, like `..`, which in Unix directories points to its parent directory, to traverse up the directory chain and access files outside of `/var/www` or config files.

Using the same `..` technique, an attacker can escape out of the directory containing the PDFs and access anything they want on the system.

eg:
<http://www.mywebsite.com/?template=../../../../../../../../etc/passwd>

Suggest the possible algorithm(s) for preventing directory traversal from the following:

1. Giving appropriate permissions to directories and files.
2. Process URI requests that do not result in a file request, e.g., executing a hook into user code, before continuing.

normalize all characters (e.g., %20 converted to spaces).

4. It is assumed that a 'Document Root' fully qualified, normalized, path is known, and this string has a length N. Assume that no files outside this directory can be served.
5. Ensure that the last N characters of the fully qualified path to the requested file is checked
6. Use a hard-coded predefined file extension to suffix the path



Options



- Option 1, Option 2, Option 5, Option 6
- Option 1, Option 2, Option 3, Option 4
- Option 1, Option 3, Option 5, Option 6
- Option 2, Option 3, Option 4, Option 5

Q42. Our client wants a new software and he is keen to know in advance how much software will cost. As an Engineer, how will you calculate the cost of software?

Options



- You will buy some time and prepare (PRD) product requirement document. Once client approves the PRD you will estimate the cost.

You will try to find Estimated software size, analyze the goal of the software, the purpose it's supposed to solve, and key requirements. The development cost is

- directly proportional to the size of the software and its user base. Its size is defined by the number of screens/pages it has and the size of the user base is defined by the number of end-users it is expected to adopt.

Q43. Why to use SonarQube?

Options

- SonarQube increases productivity by
 - allowing development teams to detect and remove duplication and redundancy of code.
- SonarQube is an open-source framework for continuous inspection of code quality to
 - identify bugs, code bad smells and security vulnerabilities.

- SonarQube makes it easier for team members to reduce application size, code complexity, time and cost of maintenance, and make code easier to read and understand.
- All of the above

S & Frame -Govern...

Engineering Concepts

Programming Language

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Q44. Which of the following is not an option to achieve reliable cost and effort estimate?

Options

- Base estimates on similar projects that have already been completed
- Use one or more empirical models for software cost and effort estimation
- Use relatively simple decomposition techniques to generate project cost and effort estimates
- The ability to translate the size estimate into human effort, calendar time, and dollars

Q45. Your organization has a requirement to enrich sensor device profile data contained in a database that includes details such as location, device model, etc. from the data coming in from sensor devices that capture environmental data. Which of the following scenarios would best to answer this requirement?

Options



- Produce the data coming from the sensor devices into a Kafka topic using the Message Queuing Telemetry Transport (MQTT) proxy and as an intermediate step, enrich each sensor data record using the Java database connectivity (JDBC) source connector to access the sensor device profile data combined with multiple single message

- Produce the data coming from the sensor devices into a Kafka topic using the MQTT connector and as an intermediate step, enrich each sensor data record using the JDBC sink connector to access the sensor device profile data combined with multiple SMTs.

Q46. Your organization is developing an application that produces messages to Kafka with a requirement the messages are evenly distributed across a topic with 20 partitions. After completing the initial design phase and client development, load testing resulted in the following:

- 5% of test messages were written to 5 partitions
- 20% of test messages were written to 10 partitions
- 75% of test message were written to 5 partitions
- Key assignment for the test messages correctly represented what is expected for the production environment

What action might result in more even distribution of produced messages across the available partitions? (choose two)

Options

Key assignment for the test messages correctly represented what is expected for the production environment

What action might result in more even distribution of produced messages across the available partitions? (choose two)

Options



- Write a custom partitioner
- Redesign the message key

- Increase the number of producer clients used by the application
- Distribute the topic partitions across additional brokers

Q47. How can you make sure your Docker containers and their data are safely backed up?

Options



- Data stored in Docker containers should be backed up to Docker Hub.
- Schedule regular backups
- Backup the /var/lib/docker/ directory manually
- Set up volume mapping on all containers to store their data in a single location on the server (example, /data/) and backup this location.

Q48. Kubernetes has two logging strategies: passive and active.
If i am using active logging, which of following applies to setup?

Options

- Active logging is unaware of the logging infrastructure
- I cannot write directly to a database or index.
- This is best practice as a part of the twelve-factor app.
- Active logging is considered an antipattern, and it should be avoided.

Q49. package com.training;

```
public class TestBean {
```

```
    private int year;
```

```
    private String happy;
```

```
    public TestBean( String happy,int year) {
```

```
        this.year = year;
```

```
        this.happy = happy;
```

```
}
```

```
}
```

What is the correct way to write constructor injection?

Options

<bean name="testClass" class="com.training.TestBean">
 <constructor-arg type="java.lang.String" value="Happy new year"/> <constructor-arg type="int" value="2015"/> </bean>

<bean name="testClass" class="com.training.TestBean">
 <constructor-arg type="int" value="2015"/>
 <constructor-arg type="java.lang.String"

<bean name="testClass" class="com.training.TestBean">
 <constructor-arg index="0" value="Happy new year"/> <constructor-arg index="1" value="2015"/> </bean>

All of the above

Engineering Concepts

Programming Language

Time Remaining:

00:10:34

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Q50. Volume mapping maps the host server's directory into the Docker container. The data will remain in a safe and accessible place if you do which of the following?

Options ↗

- Migrate the container
- Break the container
- Re-create the container
- Backup the container