



## Answer

(Choose 1 answer)

☐ A☐ B☐ C☐ DA. `array([[1.1],[1.1]])` ✓B. `array([[1.0],[1.1]])`C. `array([[1.0],[0.1]])`D. `array([[0.1],[1.1]])`[Back](#)[Next](#)

What is the value of Z after the following code is run?

`X=np.array([[1,0],[0,1]])``Y=np.array([[0,1],[1,0]])``Z=X+Y`



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There are 50 questions, and your progress of answering is



Answer

(Choose 1 answer)

- ☐ A
- ☐ B A. Table row ✓
- ☐ C B. Table column
- ☐ D C. Table cell
- D. Database table

Back

Next

When you create an object (an instance of a class) in Django, what does it represent?

☐ I want to finish the exam

Finish

44

44



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. The Django framework or Django server itself acts as controller ✓

B. MVC has a Model

C. MVT has a View

D. There is no difference

Back

Next

Which is one of the differences between the Django MVT and the MVC design pattern?

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Finish



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Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. <caption>

B. <label>

C. <legend> ✓

D. <title>

Back

Next

Which of the following tags define a caption for a <fieldset> element?

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Finish

Time

42



Answer

(Choose 2 answers)

☐ A

☐ B

☐ C

☐ D

☐ E

A. Fixed layouts are independent of screen sizes, and their values do not change



B. Fluid layouts should always be used when designing a website

C. Elements in a fluid layout have flexible widths and heights



D. Select all of the following which are true in describing a fluid and/or fixed layout.

E. A fixed layout specifies element sizes using percentages

Back

Next

Select ALL of the following which are true in describing a fluid and/or fixed layout.

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Finish

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Answer

(Choose 1 answer)

- ☐ A
  - ☐ B
  - ☐ C
  - ☐ D
  - ☐ E
- A. Only 1 and 4
- B. Only 1,2 and 3
- C. All 4 are supported.
- D. Only 1 and 4
- E. Only 1,3 and 4

Back

Next

Which of the following methods are supported in an API endpoint created with Flask?

1. GET
2. AUTHENTICATE
3. POST
4. DELETE



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. None of the above

B. `SELECT DISTINCT(country) FROM author`

C. `SELECT country FROM author ORDER BY 1`

D. `SELECT country FROM author LIMIT DUPLICATES`

Back

Next

Which SELECT statement eliminates duplicates in the result set?

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Finish



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. You can use a text editor to develop JavaScript applications.

B. All modern browsers support JavaScript.

C. The language syntax resembles Java.

D. JavaScript is an interpreted language. ✓

Back

Next

What quality makes it possible for you to run JavaScript applications without compiling?

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Finish





## Answer

(Choose 1 answer)

☐ A☐ B☐ C

A. Write to the file "Example1.txt"

B. Append the file "Example1.txt"

C. Read the file "Example1.txt" ✓

Back

Next

What do the following lines of code do?  
with open("Example1.txt","r") as file1:

```
FileContent=file1.read()
```

```
print(FileContent)
```

☐ I want to finish the exam

Finish



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There are 50 questions, and your progress of answering is



Answer

(Choose 1 answer)

☐ A

☐ B

A. False ✓

B. True

Back

Next

One method can have only one route decorator. True or False?

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Finish

36

36



Answer

(Choose 1 answer)

- ☐ A
- ☐ B A. test ✓
- ☐ C B. It has not prefix
- ☐ D C. function\_test  
D. unit\_test

Back

Next

The prefix to the filename where you write the test cases is:

☐ I want to finish the exam

Finish



## Answer

(Choose 1 answer)

☐ A☐ B☐ C☐ D

A. No, it is not possible—A single host can only work as one single virtual environment, and can, therefore, have only one environment.

B. Yes, Virtualization makes it possible—to have VMs, running different operating systems, on a single host. ✓

C. No, it is not possible—VMs are software-based versions of a single host. They cannot have different environments from one another

D. Yes, Containerization makes it possible—to have VMs that are unique physical entities, so you can have completely different Operating Systems on them.

[Back](#)[Next](#)

Is it possible to run completely different operating systems on Virtual Machines (VMs) that are on a single host? If yes, what makes this possible?



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. Use the 'get pods' command.

B. Apply a JSON file that includes the number of desired replicas.

C. Use the 'scale' command to scale the deployment.

D. Apply a YAML file with the 'kind' attribute set to 'ReplicaSet'. ✓

Back

Next

How do you create a ReplicaSet from scratch?

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Finish



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Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. Accessibility messages

B. AI questions

C. Error messages

D. Complex UIs ✓

Back

Next

React is an open-source library created and maintained by Facebook and community developers. What is it mainly used to build?

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Finish

32

32



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. A, B, C, and D ✓

B. A and B only

C. A, B, and C only

D. A only

Back

Next

Which of these are full-service cloud platforms?

- A. IBM Cloud
- B. Amazon Web Services
- C. Google Cloud Platform
- D. Microsoft Azure

☐ I want to finish the exam

Finish



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. componentWillMount

B. componentWillUnmount

C. componentDidMount ✓

D. Render

Back

Next

Which function is invoked right after the component is mounted on the DOM?

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Finish





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There are 50 questions, and your progress of answering is



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. JavaScript

B. HTML

C. CSS

D. Git

Back

Next

Which of the following adds interactivity and dynamic content to a website?

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Finish

29

29

## Answer

(Choose 1 answer)

☐ A☐ B☐ C☐ D

A. &lt;!-- This is a comment --&gt; ✓

B. #This is a comment

C. ""This is a comment""

D. /\*This is a comment\*/

[Back](#)[Next](#)

How are comments written in HTML?

☐ I want to finish the exam[Finish](#)



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There are 50 questions, and your progress of answering is



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. CSS

B. Web API

C. Browser

D. HTML

Back

Next

Which of the following is a back-end technology?

☐ I want to finish the exam

Finish

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26



Answer

(Choose 1 answer)

- ☐ A
- ☐ B A. Lookup web services
- ☐ C B. Access a URL
- ☐ D C. Parse through a network path
- D. Map to a web resource path



The Node.js framework treats HTTP requests at a lower network level. In contrast, Express implements an app class for what purpose?

Back

Next

Answer

(Choose 1 answer)

- ☐ A
- ☐ B
- ☐ C
- ☐ D
- A. Async.js
- B. xml2js ✓
- C. XML-JS
- D. Express.js

Back

Next

Which Node.js package can parse a string of XML elements into a JavaScript object?

☐ I want to finish the exam.

Finish

Exit

24



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. GitHub makes a pull request.



B. GitHub issues a push request for the owner.

C. GitHub generates an error message.

D. GitHub undoes the changes.

Back

Next

What happens if you make a change on a repository branch that you don't own?

☐ I want to finish the exam.

Finish

Exit

23



## Answer

(Choose 1 answer)

- ☐ A
- ☐ B A. Stop Mike
- ☐ C B. Mike
- ☐ D C. Mike Mike
- ☐ E D. Go Mike ✓
- E. Go Go

Back

Next

What is the output of the following code?  
x="Go"

```
if(x=="Go");
```

```
    print('Go ')
```

```
else:
```

```
    print('Stop')
```

```
print('Mike')
```

## Answer

(Choose 1 answer)

☐ A☐ B☐ C☐ D

A. &lt;figure src="image URL"&gt;image name&lt;/figure&gt;

B.  

C. &lt;img href="image URL"&gt;image name&lt;/img&gt;

D. &lt;image&gt;link\_to\_image&lt;/image&gt;

[Back](#)[Next](#)

Which of the following statements embeds an image in an HTML document?

☐ I want to finish the exam.[Finish](#)[Exit](#)





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There are 50 questions, and your progress of answering is



Answer

(Choose 1 answer)

- ☐ A
- ☐ B A. Facebook
- ☐ C B. The XML editor
- ☐ D C. Node.js ✓
- D. JavaScript

Back

Next

Facebook provides the Create React App to simplify creating React apps. What must be installed in order to run `npx create-react-app` with the name of the app you want to create?

☐ I want to finish the exam

Finish

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Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. 1+2

B. '12' ✓

C. '3'

D. 3

Back

Next

In Python, what is the result of the following operation: '1'+'2' ?

☐ I want to finish the exam

Finish



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. All of the above

B. A database is a logically coherent collection of data with some inherent meaning ✓

C. Only SQL can be used to query data in a database

D. Data can only be added and queried from a database but not modified

Back

Next

Which of the following statements about a database is/are correct?

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Finish



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. Be stateful

B. Let you define your infrastructure

C. Scale automatically and independently as required

D. Keep running even when there are no requests



Back

Next

Which one is the key characteristic of a function in FaaS model?

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Finish



Answer

(Choose 1 answer)

- ☐ A
- ☐ B A. git-push 🍷
- ☐ C B. git-commit -m
- ☐ D C. git-remove -v
- D. git-add

Back

Next

You need to run three commands to push local changes to the GitHub repository. What is the third command?

☐ I want to finish the exam

Finish



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There are 50 questions, and your progress of answering is

Answer

(Choose 1 answer)

☐ A

☐ B

A. True

B. False



Back

Next

The python code will throw runtime error if pylint is not run before executing the file.

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Finish

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There are 50 questions, and your progress of answering is

Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. When a user clicks the mouse or presses the keyboard

B. When components are created or mounted on the DOM

C. When the component is removed from the DOM

D. When the state of the component first changes

Back

Next

When does a component lifecycle start?

☐ I want to finish the exam

Finish

14

## Answer

(Choose 1 answer)

☐ A☐ B☐ C☐ D

A. It indicates the condition under which the data should be deleted; for example, which rows should have their contents deleted.

B. It limits the amount of data that is deleted to a certain number of characters.

C. It specifies where to find the data to delete, by column number and row number.

D. It specifies the server where the database is located.

[Back](#)[Next](#)

When using the DELETE statement to remove data from a database, what does the WHERE clause do?

☐ I want to finish the exam[Finish](#)

13



## Answer

(Choose 1 answer)

- ☐ A
- ☐ B A. Single shared point of failure
- ☐ C B. Geographic area or region where cloud provider's infrastructure is clustered
- ☐ D C. Unique physical locations with one or more data centers ✓
- D. Standardized containers of computing resources

Back

Next

Each Cloud Region can have multiple Zones (also known as Availability Zones). What are Zones?

☐ I want to finish the exam

Finish

12



## Answer

(Choose 1 answer)

☐ A☐ B☐ CA. `a=np.array([1,1,1,1,1]) a+10` ✓B. `a=np.array([1,2,1,1,1]) a+10`C. `a=np.array([1,1,1,1,1]) 11-a`

Back

Next

What line of code would produce the following: `array([11, 11, 11, 11, 11])`?☐ I want to finish the exam

Finish



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There are 50 questions, and your progress of answering is

Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. A regulated name for JSON

B. A standardized name for JavaScript ✓

C. A programming organization

D. A communication standard

Back

Next

What is EcmaScript or ES?

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Finish

100%

10



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. Non-blocked operations return in a synchronized manner with added processing time on the server

B. Applications block every network operation to complete at the same time on the server

C. Blocked operations return immediately without added processing time on the server

D. Non-blocked operations return immediately without added processing time on the server



Back

Next

What best describes the network operations that Node.js makes?

## Answer

(Choose 1 answer)

- ☐ A
- ☐ B A. Deploy ✓
- ☐ C B. Code
- ☐ D C. Configure
- D. Operate

Back

Next

Which phase of the Twelve-Factor Methodology contains Port binding?

☐ I want to finish the exam

Finish

Time

8



Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. A folder with server.py

B. The methods in the script should be defined as public method

C. The python script should be packaged in a directory with `__init__.py` in the same directory

D. `import sys` as the first line of code in the python script.



Back

Next

To package a python script in a package to be able to import and use it, which of the following is required.

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Finish

7



Answer

(Choose 2 answers)

☐ A

☐ B

☐ C

☐ D

A. The speed with which applications can be up and running on the cloud versus months on traditional platforms, means enterprises can experiment, fail fast, learn, and course correct without setting them back significantly. ✓

B. Diversity of standardization in how the constantly evolving technologies integrate and interoperate.

C. Data security associated with loss or unavailability of data causing business disruption

D. The pay-as-you-go model allows enterprises to experiment with technologies as opposed to making long-term decisions based on little or no trial. ✓

Back

Next

What are some of the cloud benefits that make it lower-risk for enterprises to adopt cloud? Select two.

☐ I want to finish the exam

Finish



Answer

(Choose 1 answer)

- ☐ A
  - ☐ B
  - ☐ C
  - ☐ D
- A. Local
- B. Centralized
- C. Distributed ✓
- D. Remote

Back

Next

What type of version control system is Git?

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Finish





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There are 50 questions, and your progress of answering is

Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. Mounts a file using the volumes plugin

B. Provides sensitive information to your application

C. Verifies that a Secret was created

D. Provides variables for your application

Back

Next

What does a ConfigMap do?

☐ I want to finish the exam

Finish

4



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There are 50 questions, and your progress of answering is

Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. Store data

B. Host business logic

C. Host static content and scripts ✓

D. Provide scaling

Back

Next

What is the responsibility of the Front End in a Serverless Architecture?

☐ I want to finish the exam

Finish

End

3



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There are 50 questions, and your progress of answering is

Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. Building container image with Dockerpack and Buildpack.

B. Building container image with Dockerfile and Buildpack. ✓

C. Building container image with Github Action and DockerHuB:

D. Building container image with DockerHub and Buildpack.

Back

Next

What are the two main application-building methods supported in IBM Cloud Code Engine?

☐ I want to finish the exam

Finish

Time

2



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There are 50 questions, and your progress of answering is

Answer

(Choose 1 answer)

☐ A

☐ B

☐ C

☐ D

A. (1) SCP, (2) TCP, and (3) HTTP

B. (1) Build and deploy applications from source code, (2) Deploy container image-based applications and (3) REST APIs

C. (1) Build and deploy applications from source code, (2) Deploy container image-based applications, and (3) Run Jobs

D. (1) Run REST APIs, (2) Build and Run Source Code, and (3) Run Jobs

Back

Next

What are the three deployment modes of IBM Cloud Code Engine?

☐ I want to finish the exam

Finish

100%

1