AppDev2

Section Id :	64065349265
Section Number :	6
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	33
Number of Questions to be attempted :	33
Section Marks :	100
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	640653103280
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 122 Question Id : 640653697699 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 0

Question Label : Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "DIPLOMA LEVEL : MODERN APPLICATION DEVELOPMENT II (COMPUTER BASED EXAM)"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?
CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.

(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE TOP FOR THE SUBJECTS

REGISTERED BY YOU)

Options :

6406532330165. ✔ YES

6406532330166. ✖ NO

Sub-Section Number :	2
Sub-Section Id :	640653103281
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 123 Question Id : 640653697700 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following statements is/are false.

Options :

6406532330167. ✖ SMTP is a mail delivery protocol.

6406532330168. ✔ SMTP is a protocol to retrieve email from an email server.

6406532330169. ✔ IMAP is a mail delivery protocol.

6406532330170. ✖ IMAP is a protocol to retrieve email from an email server.

Question Number : 124 Question Id : 640653697701 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following is/are correct regarding CDN.

Options :

6406532330171. ✔ CDN is an acronym for Content Delivery Network.

6406532330172. ✔ CDN is a group of servers that helps in fast delivery of web contents.

6406532330173. ✖ Web content is always delivered from the closest server to the client in the network.

6406532330174. ✖ None of these.

Question Number : 125 Question Id : 640653697702 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following is correct regarding Celery?

Options :

6406532330175. ✔ Celery is a task queue.

6406532330176. ✔ It needs broker to function.

6406532330177. ✔ Celery can be used to schedule the task.

6406532330178. ✖ None of these.

Question Number : 126 Question Id : 640653697716 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following statement(s) is/are true regarding javascript language?

Options :

6406532330231. ✖ Replit.com is an example of a javascript engine.

6406532330232. ✔ The language supports the concept of first class functions.

6406532330233. ✖ The language does not allow the implementation of user defined higher order functions.

6406532330234. ✔ The language can be used for DOM manipulation.

Question Number : 127 Question Id : 640653697718 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following method(s) does not guarantee that the displayed state and system state are kept in sync at all times?

Options :

6406532330240. ✖ Ajax requests on each UI change

6406532330241. ✔ Periodic reloading of web-page

6406532330242. ✔ Vue bindings to update data reactively

6406532330243. ✖ Pure static pages with all updates rendered from server

Question Number : 128 Question Id : 640653697725 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Max. Selectable Options : 0

Question Label : Multiple Select Question

You are trying to build a distributed system with N servers, each of which may need to communicate with any of the other servers. Which of the following statement(s) is/are false?

Options :

6406532330272. ✔ With point-to-point communication, the number of connection links will grow as O(n).

6406532330273. ✖ With point-to-point communication, the number of connection links will grow as $O(n^2)$.

6406532330274. ✗ With the use of a central message broker, the number of connection links will grow as O(n).

6406532330275. ✓ With the use of a central message broker, the number of connection links will grow as $O(n^2)$.

Question Number : 129 Question Id : 640653697726 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following statement(s) is/are false regarding webhooks?

Options :

6406532330276. ✗ A webhook uses HTTP protocol.

6406532330277. ✓ A webhook uses web socket protocol.

6406532330278. ✓ A webhook receiver must be deployed on the same origin as the webhook initiator.

6406532330279. ✗ A webhook is supposed to be used for machine to machine communication

Sub-Section Number :	3
Sub-Section Id :	640653103282
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 130 Question Id : 640653697703 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following is correct regarding XSS attacks?

Options :

6406532330179. ✓ XSS attack is an exploit where an attacker attaches a malicious code into a website.

6406532330180. ✓ XSS can be used to steal the user's cookie.

6406532330181. ✓ XSS is a client side injection attack.

6406532330182. ✓ It can be avoided by validating the user's input.

Question Number : 131 Question Id : 640653697719 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following is/are valid use(s) of “v-for” directive, assuming “obj” is an object having a number of key value pairs?

Options :

6406532330244. ✓ v-for = “value in obj”

6406532330245. ✓ v-for = “(value, name) in obj”

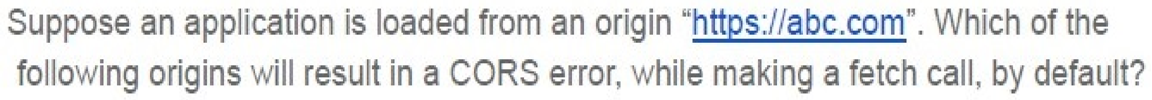
6406532330246. ✓ v-for = “(value, name, index) in obj”

6406532330247. ✖ None of these

Question Number : 132 Question Id : 640653697723 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

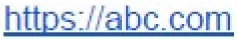
Correct Marks : 3 Max. Selectable Options : 0

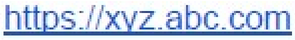
Question Label : Multiple Select Question

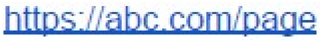


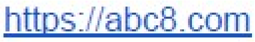
Suppose an application is loaded from an origin “https://abc.com”. Which of the following origins will result in a CORS error, while making a fetch call, by default?

Options :

6406532330264. ✖ 
https://abc.com

6406532330265. ✓ 
https://xyz.abc.com

6406532330266. ✖ 
https://abc.com/page

6406532330267. ✓ 
https://abc8.com

Question Number : 133 Question Id : 640653697727 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following statement(s) is/are false regarding long and short polling?

Options :

6406532330280. ✓ A webhook is the same as short polling.

6406532330281. ✖ The short polling can be used to know the state of an asynchronous task, and trigger an action if the task gets completed.

6406532330282. ✓ The long polling cannot be achieved using HTTP protocol.

6406532330283. ✖ Long Polling can be used to achieve real time communication

Question Number : 134 Question Id : 640653697728 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following statement(s) is/are false regarding caching?

Options :

6406532330284. ✓ It is recommended to cache the social networking apps feed responses for a longer duration.

6406532330285. ✗ Caching is primarily done to reduce the load from the origin server.

6406532330286. ✗ The shared cache is meant to serve responses to the multiple users.

6406532330287. ✓ A browser cannot cache JavaScript corresponding to a web page.

Question Number : 135 Question Id : 640653697729 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of the following statements is true regarding CORS and CSRF?

Options :

6406532330288. ✓ CORS stands for Cross Origin Resource Sharing.

6406532330289. ✓ The CORS reduces chances of malicious code by explicitly saying which URLs can be originators of data.

6406532330290. ✓ CSRF stands for Cross Site Request Forgery.

6406532330291. ✗ None of these

Sub-Section Number :	4
Sub-Section Id :	640653103283
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 136 Question Id : 640653697731 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2

Question Label : Multiple Choice Question

Which of the following statement(s) is/are true regarding Celery?

Options :

6406532330297. ✓ A celery system may consist of multiple brokers.

6406532330298. ✖ Redis must be used as a message broker for Celery.

6406532330299. ✖ The framework does not support periodic scheduling of tasks.

6406532330300. ✖ All of these.

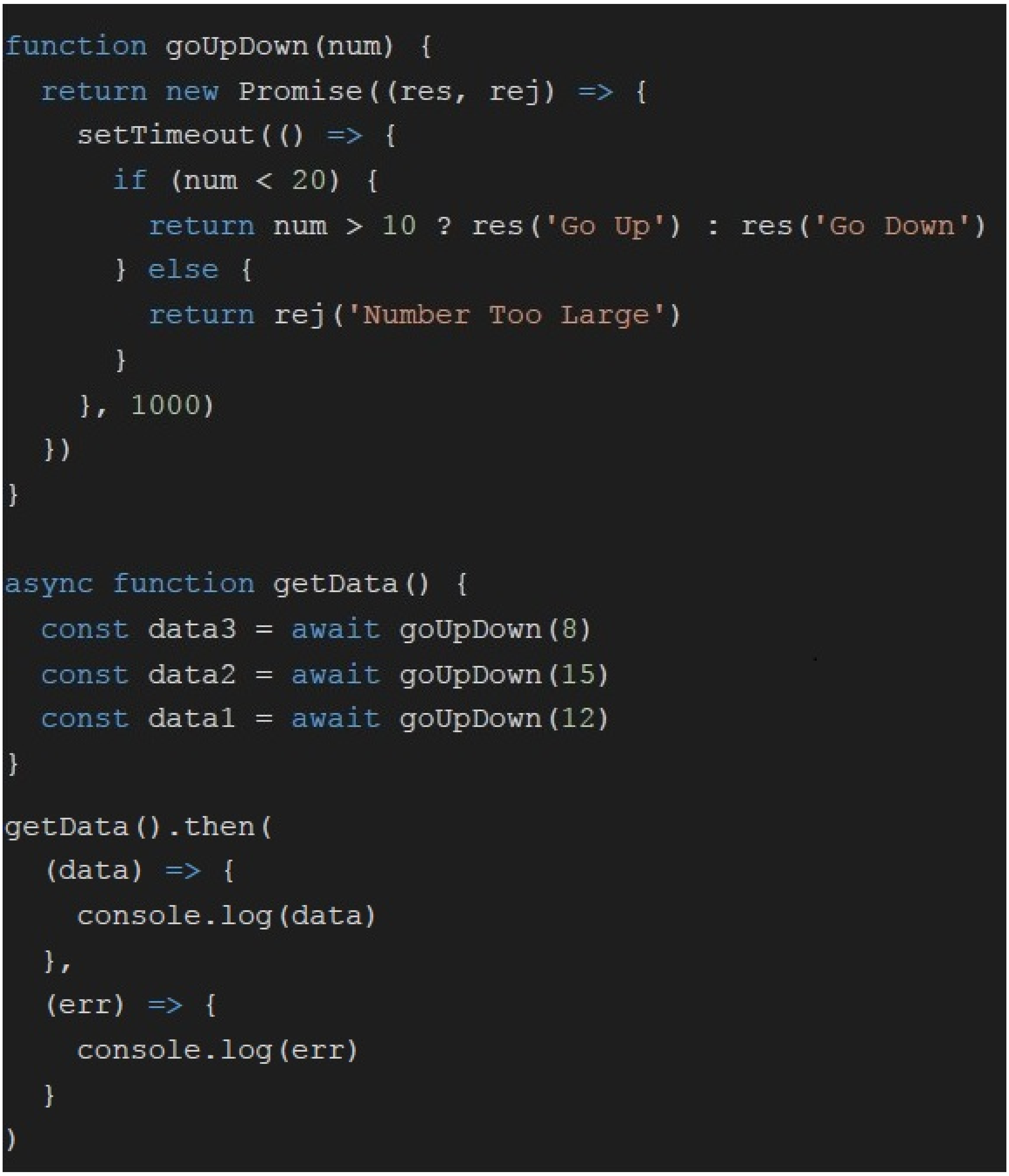
Sub-Section Number :	5
Sub-Section Id :	640653103284
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 137 Question Id : 640653697704 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the following JavaScript code.



```
function goUpDown(num) {
  return new Promise((res, rej) => {
    setTimeout(() => {
      if (num < 20) {
        return num > 10 ? res('Go Up') : res('Go Down')
      } else {
        return rej('Number Too Large')
      }
    }, 1000)
  })
}

async function getData() {
  const data3 = await goUpDown(8)
  const data2 = await goUpDown(15)
  const data1 = await goUpDown(12)
}

getData().then(
  (data) => {
    console.log(data)
  },
  (err) => {
    console.log(err)
  }
)
```

What will be logged on to console, if executed?

Options :

6406532330183. ✖ Go Up

6406532330184. ✖ Go Down

6406532330185. ✖ Number Too Large

6406532330186. ✔ None of these.

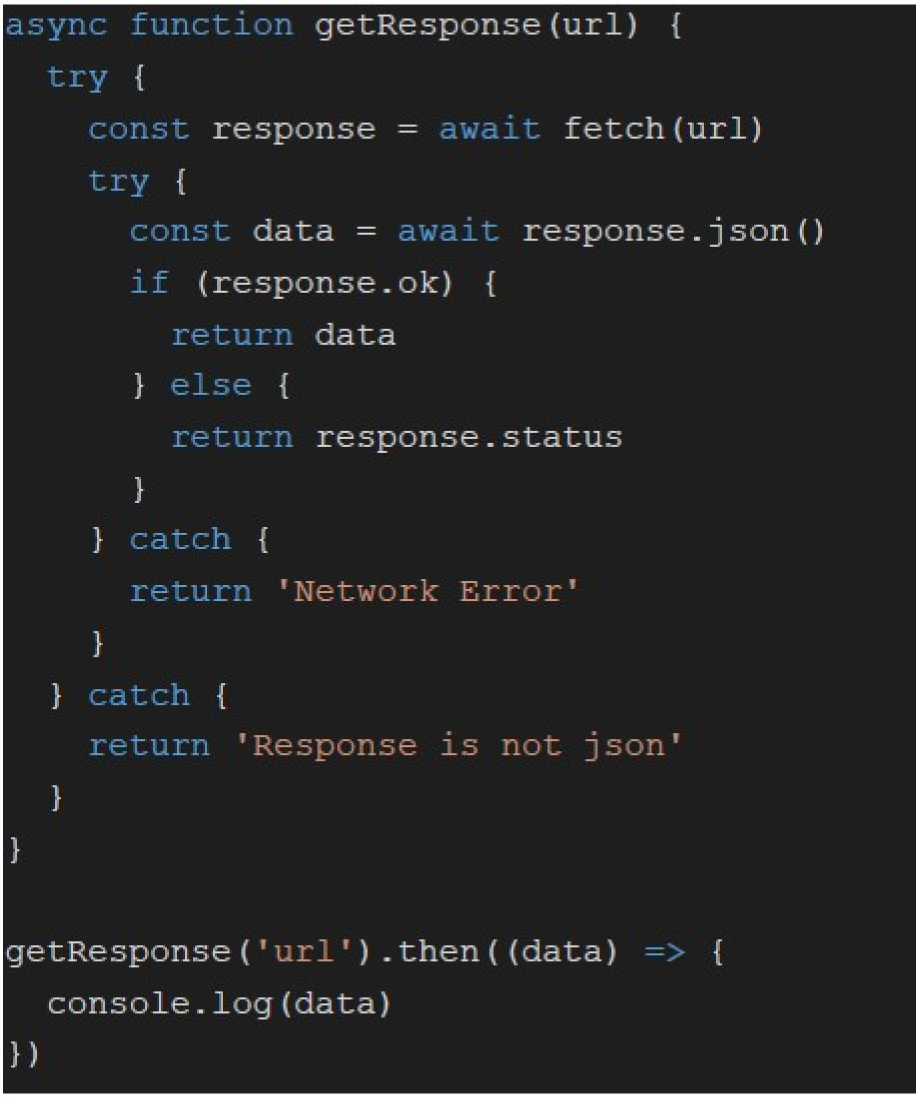
Question Number : 138 Question Id : 640653697705 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the following JavaScript code.



```
async function getResponse(url) {
  try {
    const response = await fetch(url)
    try {
      const data = await response.json()
      if (response.ok) {
        return data
      } else {
        return response.status
      }
    } catch {
      return 'Network Error'
    }
  } catch {
    return 'Response is not json'
  }
}

getResponse('url').then((data) => {
  console.log(data)
})
```

Suppose there is an network error and fetch request to the ‘url’ fails. What will be logged on to console, if the code is executed?

Options :

6406532330187. ✓ Response is not json

6406532330188. ✖ Network Error

6406532330189. ✖ 200

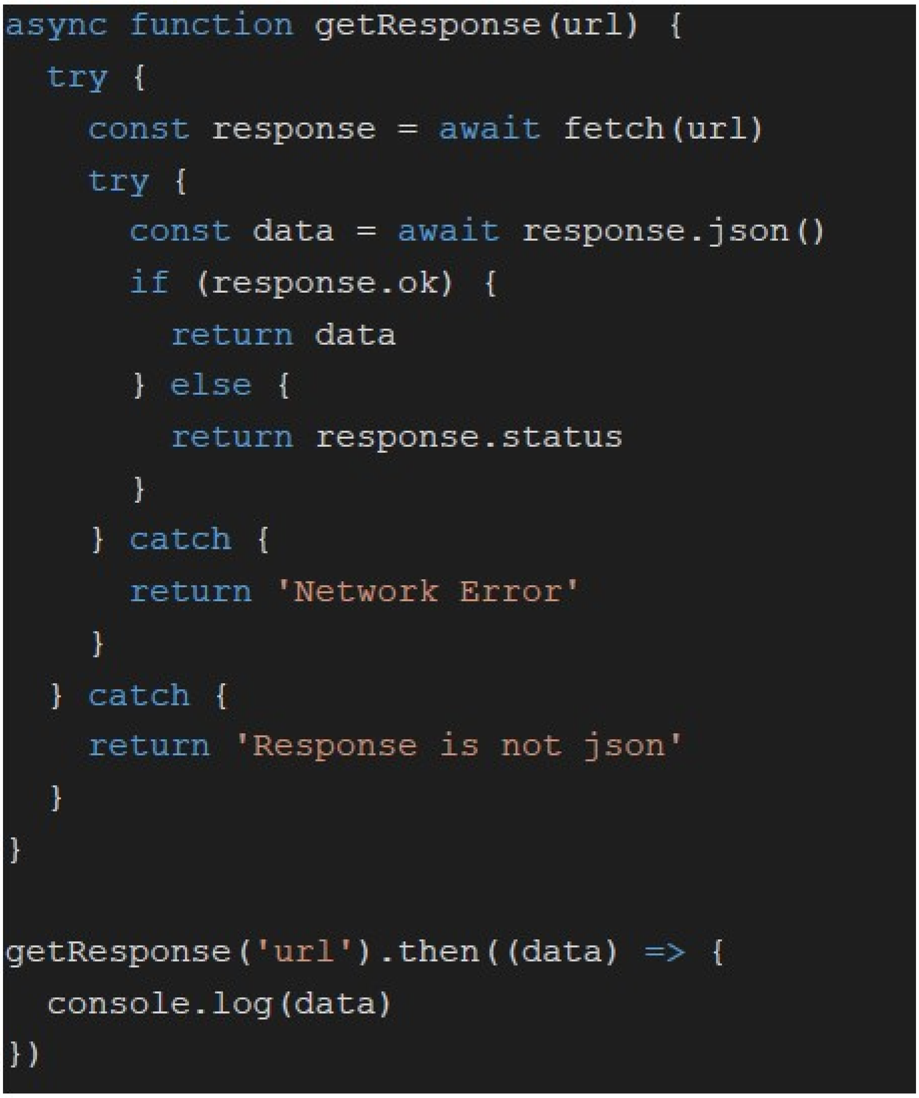
6406532330190. ✖ None of these.

Question Number : 139 Question Id : 640653697706 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the JavaScript code.



```
async function getResponse(url) {
  try {
    const response = await fetch(url)
    try {
      const data = await response.json()
      if (response.ok) {
        return data
      } else {
        return response.status
      }
    } catch {
      return 'Network Error'
    }
  } catch {
    return 'Response is not json'
  }
}

getResponse('url').then((data) => {
  console.log(data)
})
```

Suppose the ‘url’ returns a JSON response with 500 status code. What will be logged on to console?

Options :

6406532330191. ✖ Response is not json

6406532330192. ✖ Network Error

6406532330193. ✖ 404

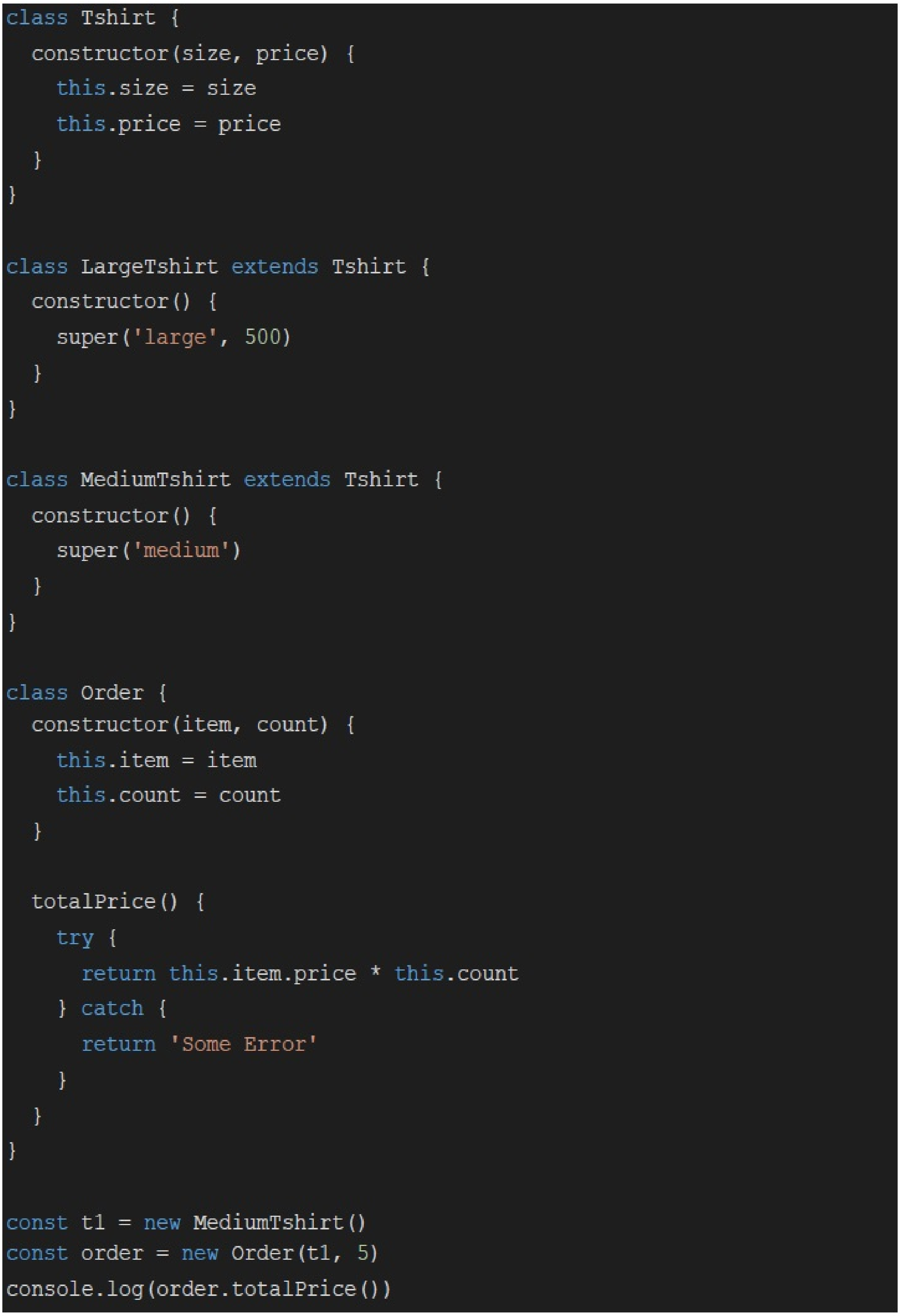
6406532330194. ✓ 500

Question Number : 140 Question Id : 640653697708 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the following JavaScript code.



```
class Tshirt {
  constructor(size, price) {
    this.size = size
    this.price = price
  }
}

class LargeTshirt extends Tshirt {
  constructor() {
    super('large', 500)
  }
}

class MediumTshirt extends Tshirt {
  constructor() {
    super('medium')
  }
}

class Order {
  constructor(item, count) {
    this.item = item
    this.count = count
  }

  totalPrice() {
    try {
      return this.item.price * this.count
    } catch {
      return 'Some Error'
    }
  }
}

const t1 = new MediumTshirt()
const order = new Order(t1, 5)
console.log(order.totalPrice())
```

What will be logged on to console, if executed?

Options :

6406532330199. ✓ NaN

6406532330200. ✗ 500

6406532330201.

✖ 2500

6406532330202. ✖ Some Error

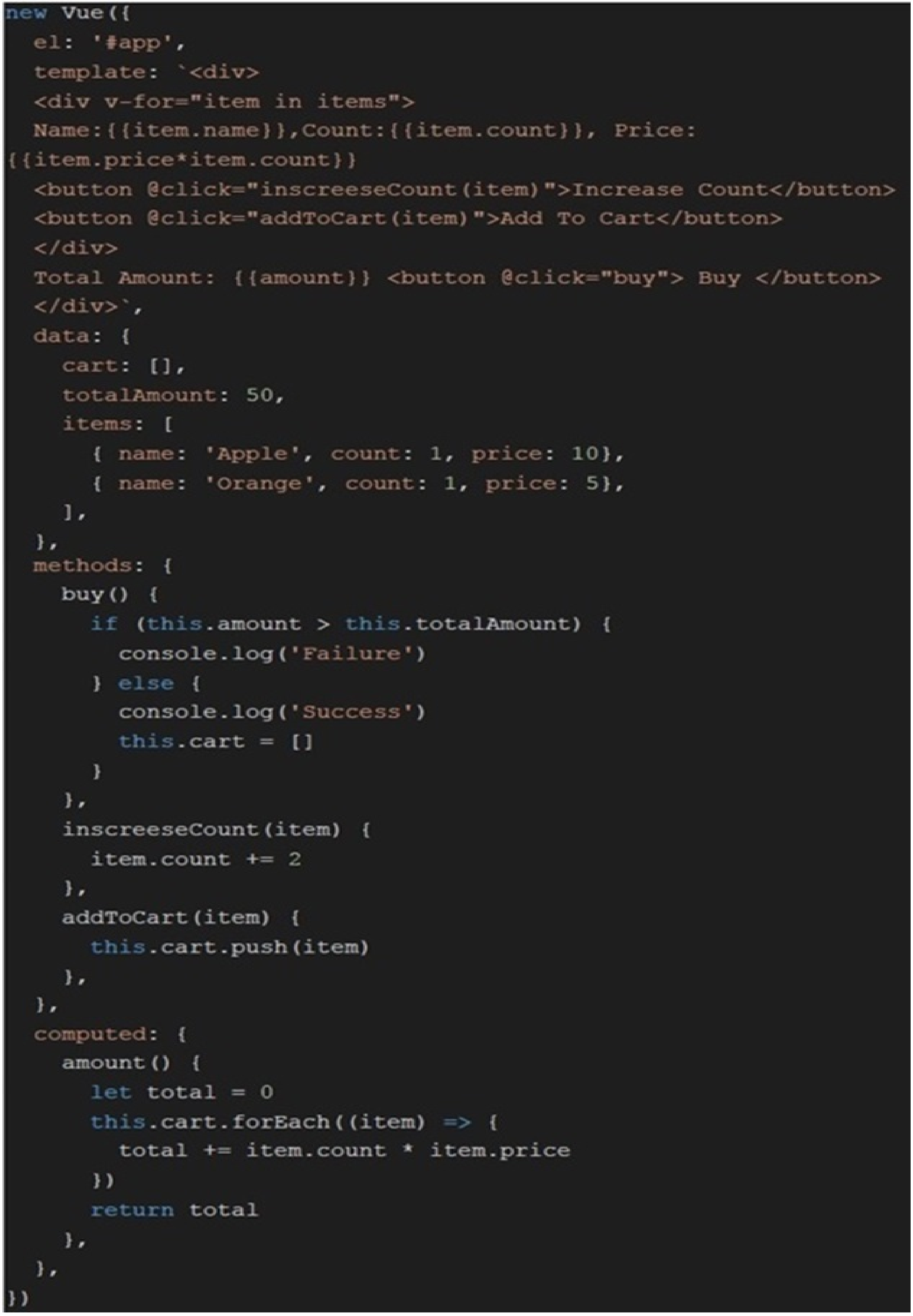
Question Number : 141 Question Id : 640653697710 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

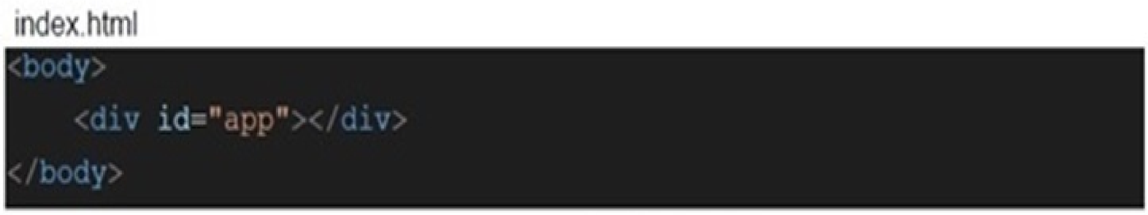
Question Label : Multiple Choice Question

Consider the following Vue application with JavaScript “app.js” and markup “index.html”

app.js

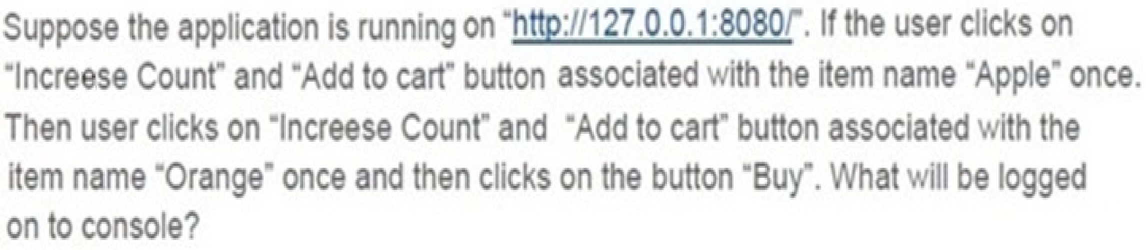


```
new Vue({
  el: '#app',
  template: `<div>
  <div v-for="item in items">
  Name:{{item.name}},Count:{{item.count}}, Price:
{{item.price*item.count}}
  <button @click="inscreeseCount(item)">Increase Count</button>
  <button @click="addToCart(item)">Add To Cart</button>
  </div>
  Total Amount: {{amount}} <button @click="buy"> Buy </button>
  </div>`,
  data: {
    cart: [],
    totalAmount: 50,
    items: [
      { name: 'Apple', count: 1, price: 10},
      { name: 'Orange', count: 1, price: 5},
    ],
  },
  methods: {
    buy() {
      if (this.amount > this.totalAmount) {
        console.log('Failure')
      } else {
        console.log('Success')
        this.cart = []
      }
    },
    inscreeseCount(item) {
      item.count += 2
    },
    addToCart(item) {
      this.cart.push(item)
    },
  },
  computed: {
    amount() {
      let total = 0
      this.cart.forEach((item) => {
        total += item.count * item.price
      })
      return total
    },
  },
})
```



index.html

```
<body>
    <div id="app"></div>
</body>
```



Suppose the application is running on "http://127.0.0.1:8080/". If the user clicks on "Increese Count" and "Add to cart" button associated with the item name "Apple" once. Then user clicks on "Increese Count" and "Add to cart" button associated with the item name "Orange" once and then clicks on the button "Buy". What will be logged on to console?

Options :

6406532330207. ✓ Success

6406532330208. ✗ Failure

6406532330209. ✗ NaN

6406532330210. ✗ None of these.

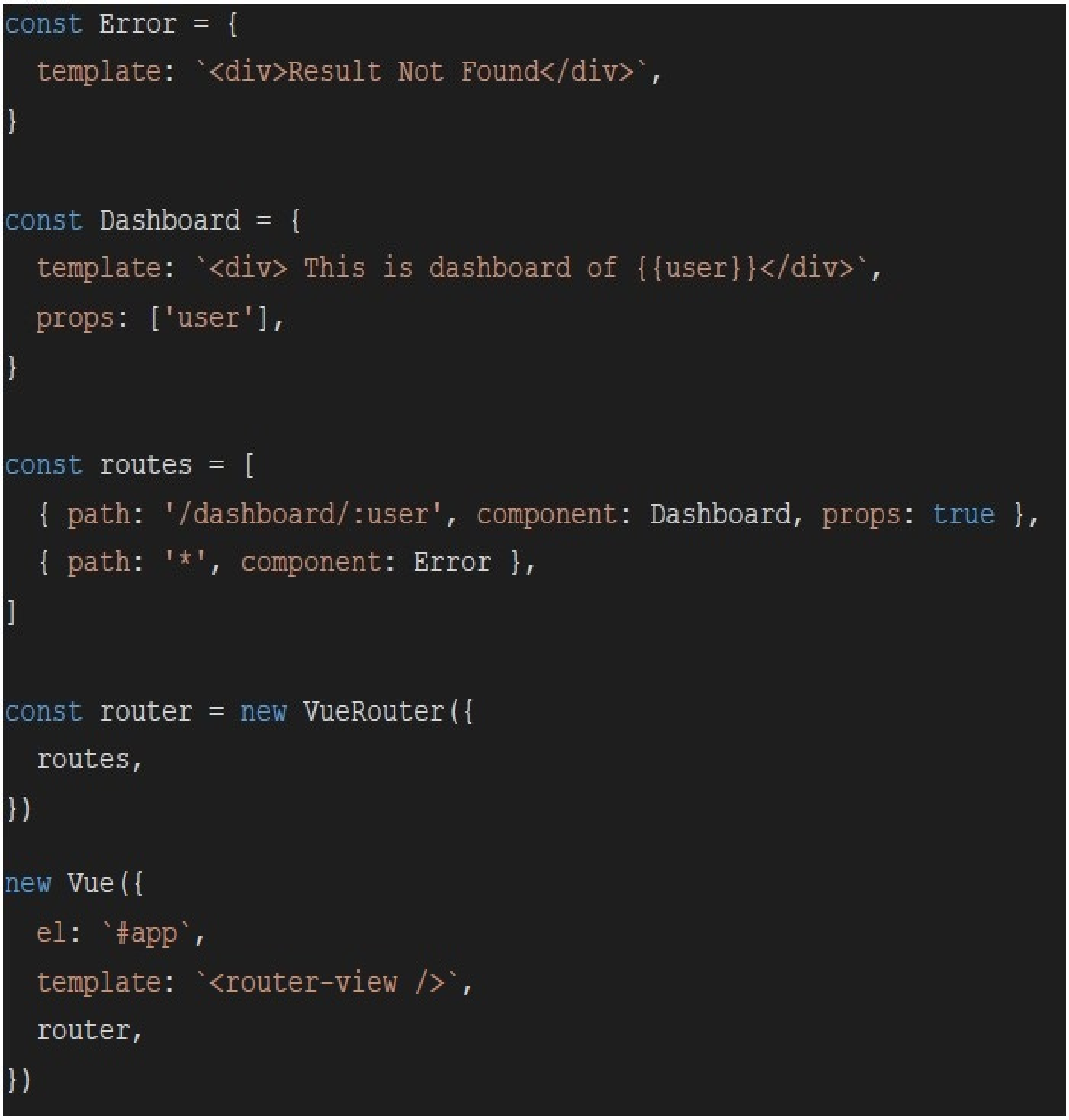
Question Number : 142 Question Id : 640653697712 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

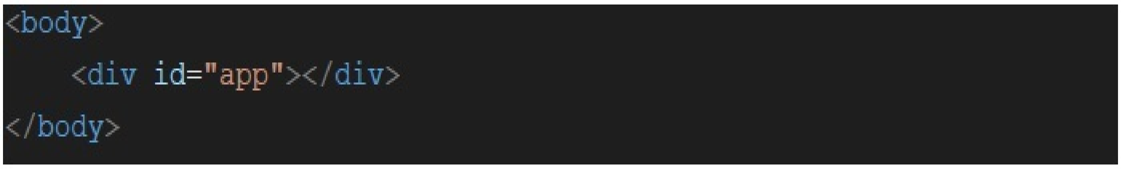
Consider the following Vue app with markup "index.html" and JavaScript "app.js"

app.js



```
const Error = {
  template: `<div>Result Not Found</div>`,
}

const Dashboard = {
  template: `<div> This is dashboard of {{user}}</div>`,
  props: ['user'],
}

const routes = [
  { path: '/dashboard/:user', component: Dashboard, props: true },
  { path: '*', component: Error },
]

const router = new VueRouter({
  routes,
})

new Vue({
  el: `#app`,
  template: `<router-view />`,
  router,
})
```

index.html



```
<body>
    <div id="app"></div>
</body>
```

What will be rendered by the browser for the URL http://127.0.0.1:8080/#/dashboard/7"?

Options :

6406532330215. ✖ This is dashboard of User

6406532330216. ✔ This is dashboard of 7

6406532330217. ✖ Dashboard

6406532330218. ✖ Result Not Found

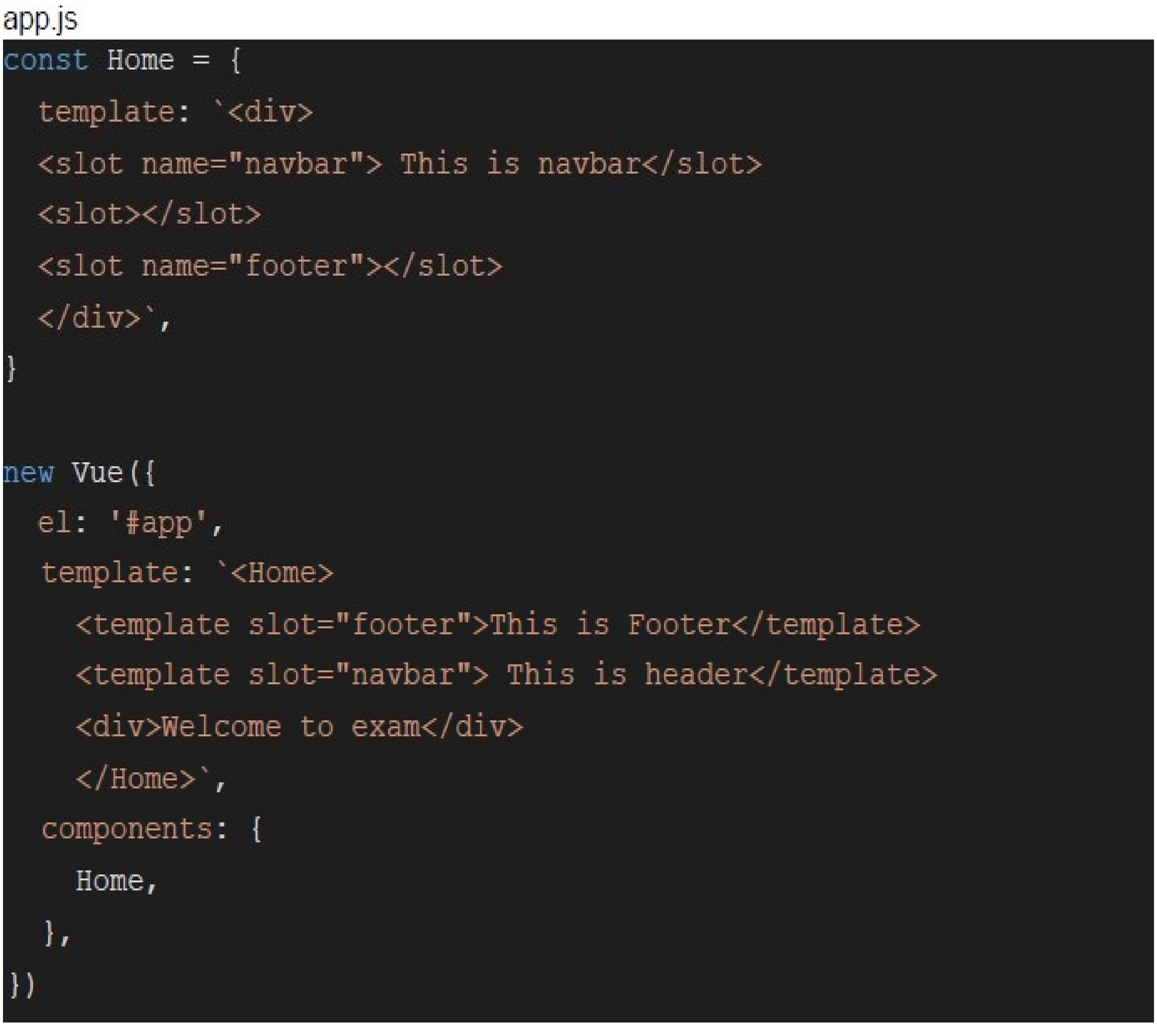
Question Number : 143 Question Id : 640653697713 Question Type : MCQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

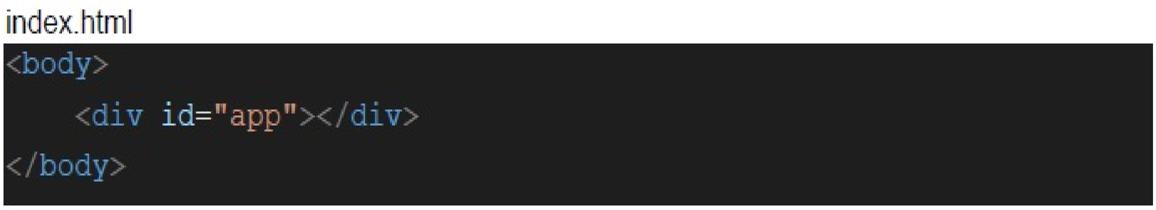
Question Label : Multiple Choice Question

Consider the following Vue application with markup “index.html” and JavaScript “app.js”



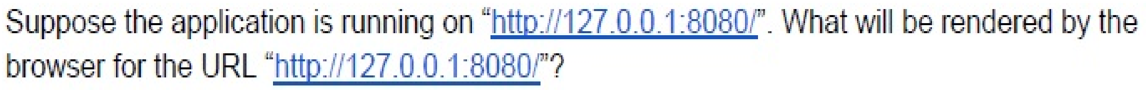
app.js

```
const Home = {
  template: `<div>
  <slot name="navbar"> This is navbar</slot>
  <slot></slot>
  <slot name="footer"></slot>
  </div>`,
}

new Vue({
  el: '#app',
  template: `<Home>
    <template slot="footer">This is Footer</template>
    <template slot="navbar"> This is header</template>
    <div>Welcome to exam</div>
    </Home>`,
  components: {
    Home,
  },
})
```



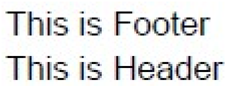
index.html

```
<body>
    <div id="app"></div>
</body>
```

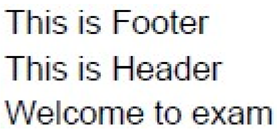


Suppose the application is running on “http://127.0.0.1:8080/”. What will be rendered by the browser for the URL “http://127.0.0.1:8080/”?

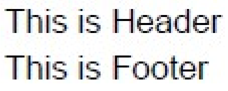
Options :

6406532330219. ✖ 

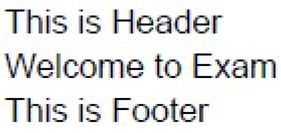
This is Footer
This is Header

6406532330220. ✖ 

This is Footer
This is Header
Welcome to exam

6406532330221. ✖ 

This is Header
This is Footer

6406532330222. ✔ 

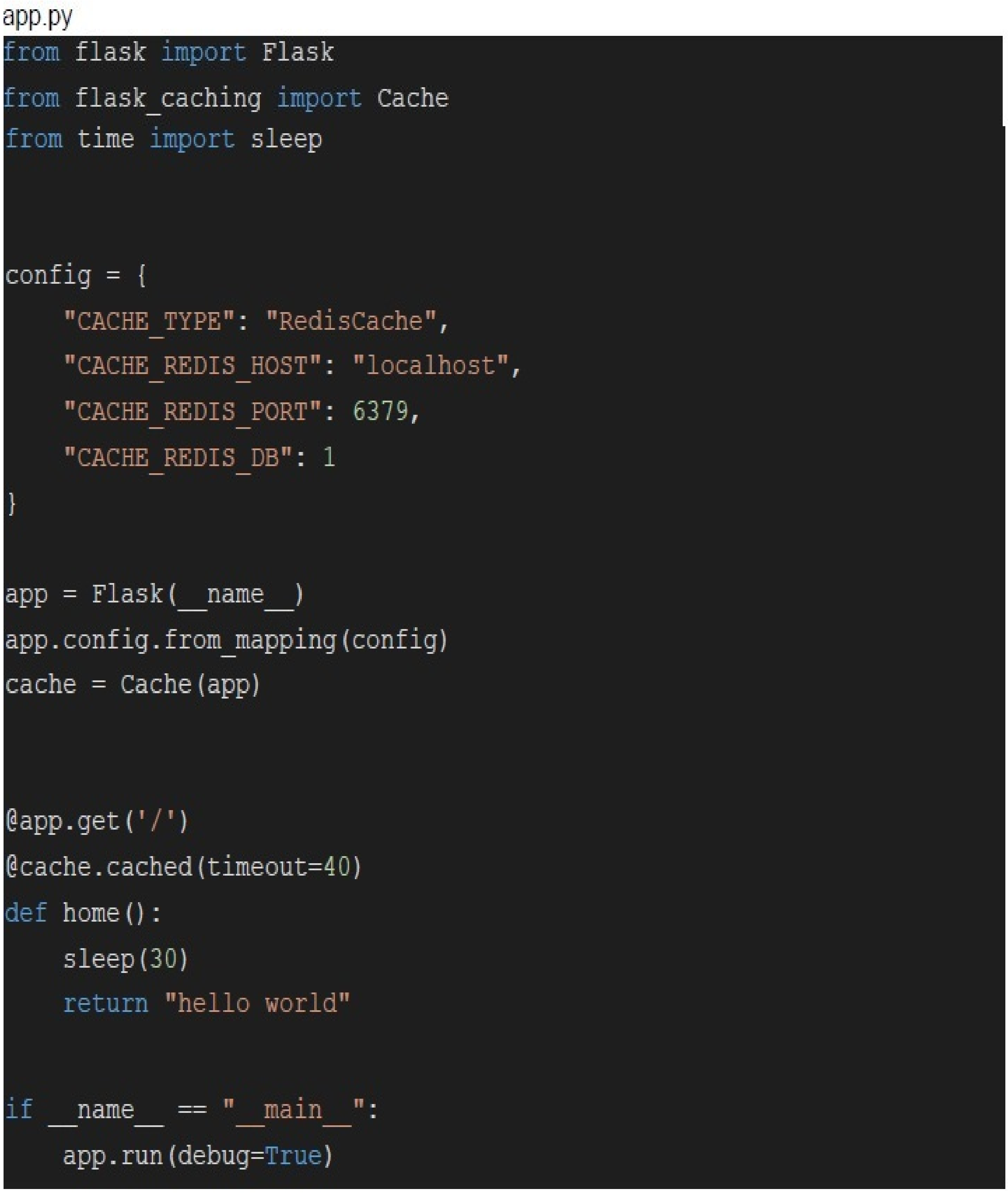
This is Header
Welcome to Exam
This is Footer

Question Number : 144 Question Id : 640653697715 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

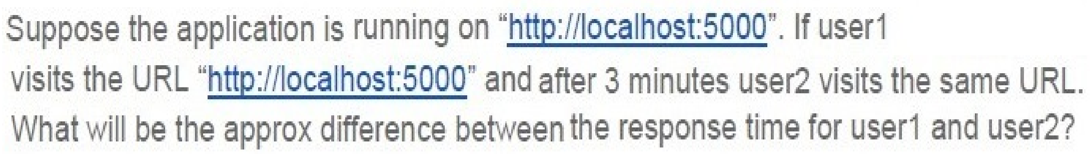
Question Label : Multiple Choice Question

Consider the following flask application.



app.py

```
from flask import Flask
from flask_caching import Cache
from time import sleep


config = {
    "CACHE_TYPE": "RedisCache",
    "CACHE_REDIS_HOST": "localhost",
    "CACHE_REDIS_PORT": 6379,
    "CACHE_REDIS_DB": 1
}

app = Flask(__name__)
app.config.from_mapping(config)
cache = Cache(app)


@app.get('/')
@cache.cached(timeout=40)
def home():
    sleep(30)
    return "hello world"

if __name__ == "__main__":
    app.run(debug=True)
```



Suppose the application is running on “http://localhost:5000”. If user1 visits the URL “http://localhost:5000” and after 3 minutes user2 visits the same URL. What will be the approx difference between the response time for user1 and user2?

Options :

6406532330227. ✓ 0 seconds

6406532330228. ✖ 30 seconds

6406532330229. ✖ 120 seconds

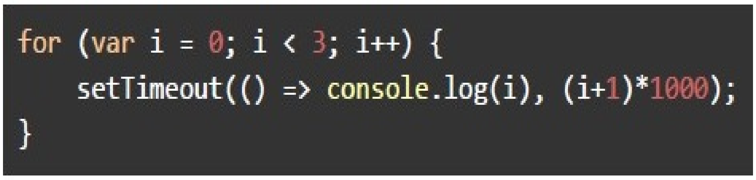
6406532330230. ✖ None of these

Question Number : 145 Question Id : 640653697724 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

Consider the below javascript program.



```
for (var i = 0; i < 3; i++) {
    setTimeout(() => console.log(i), (i+1)*1000);
}
```

What will be the output of the above program, if executed? Also, predict the minimum number of seconds the program will take to complete the execution?

Options :

0
1
2
6406532330268. ✗ Minimum Time Taken: 6 seconds

0
1
2
6406532330269. ✗ Minimum Time Taken: 12 seconds

3
3
3
6406532330270. ✗ Minimum Time Taken: 12 seconds

3
3
3
6406532330271. ✓ Minimum Time Taken: 6 seconds

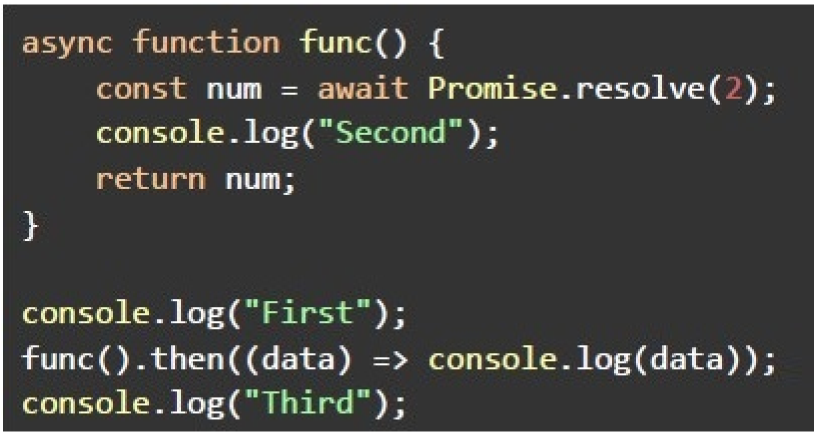
Question Number : 146 Question Id : 640653697730 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time : 0

Correct Marks : 3

Question Label : Multiple Choice Question

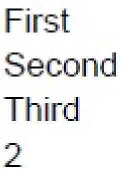
Consider the below javascript program.



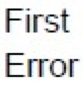
```
async function func() {
    const num = await Promise.resolve(2);
    console.log("Second");
    return num;
}

console.log("First");
func().then((data) => console.log(data));
console.log("Third");
```

What will be the output of the above program, if executed?

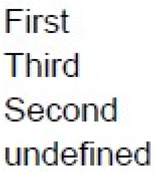
Options :

6406532330292. ✖ 

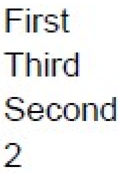
First
Second
Third
2

6406532330293. ✖ 

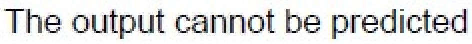
First
Error

6406532330294. ✖ 

First
Third
Second
undefined

6406532330295. ✓ 

First
Third
Second
2

6406532330296. ✖ 

The output cannot be predicted

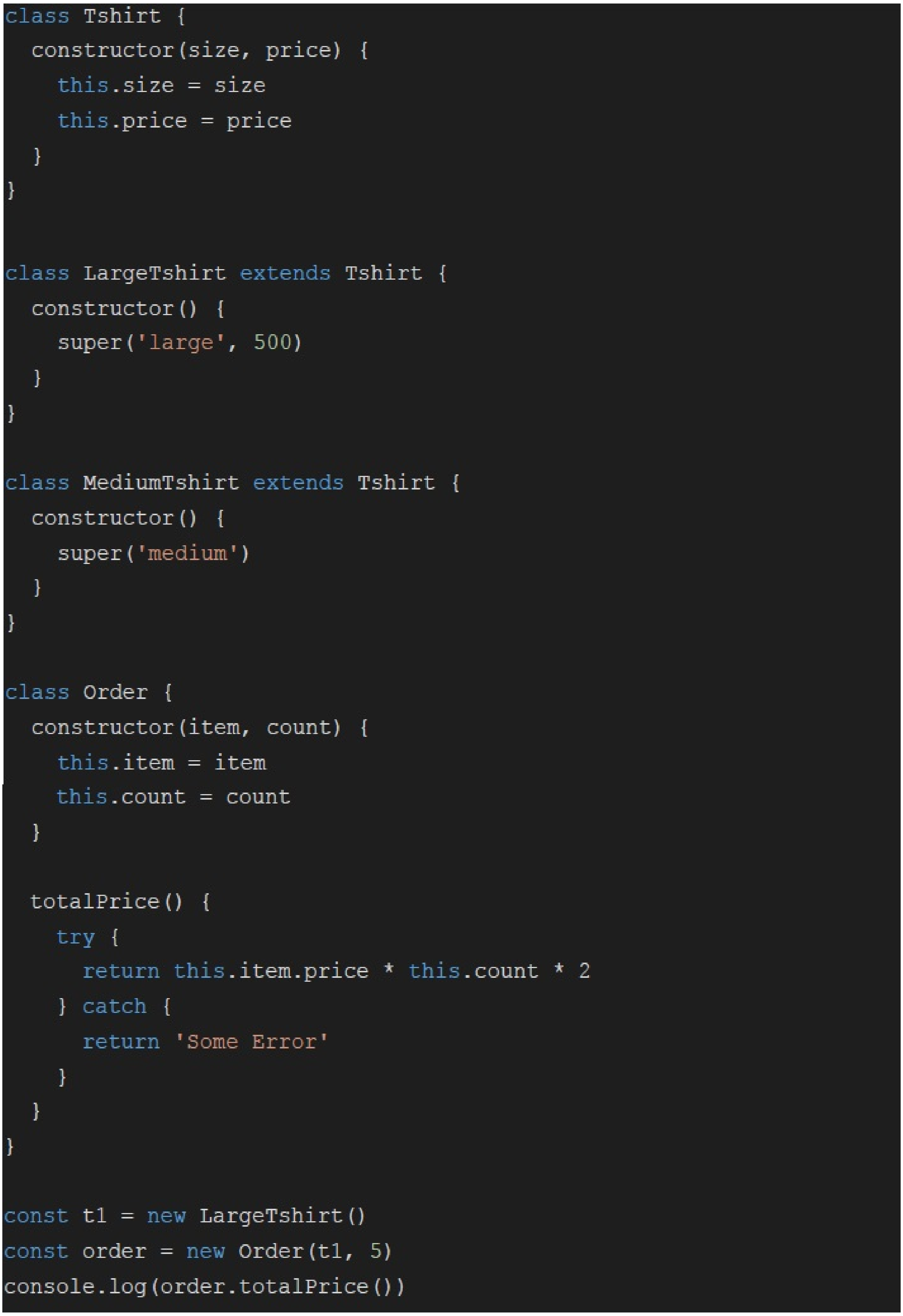
Sub-Section Number :	6
Sub-Section Id :	640653103285
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 147 Question Id : 640653697707 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

Question Label : Multiple Choice Question

Consider the following JavaScript code.



```
class Tshirt {
  constructor(size, price) {
    this.size = size
    this.price = price
  }
}


class LargeTshirt extends Tshirt {
  constructor() {
    super('large', 500)
  }
}

class MediumTshirt extends Tshirt {
  constructor() {
    super('medium')
  }
}

class Order {
  constructor(item, count) {
    this.item = item
    this.count = count
  }

  totalPrice() {
    try {
      return this.item.price * this.count * 2
    } catch {
      return 'Some Error'
    }
  }
}

const t1 = new LargeTshirt()
const order = new Order(t1, 5)
console.log(order.totalPrice())
```

What will be logged on to console, if executed?

Options :

6406532330195. ✖ NaN

6406532330196. ✖ 500

6406532330197.

✖ 2500

6406532330198. ✓ 5000

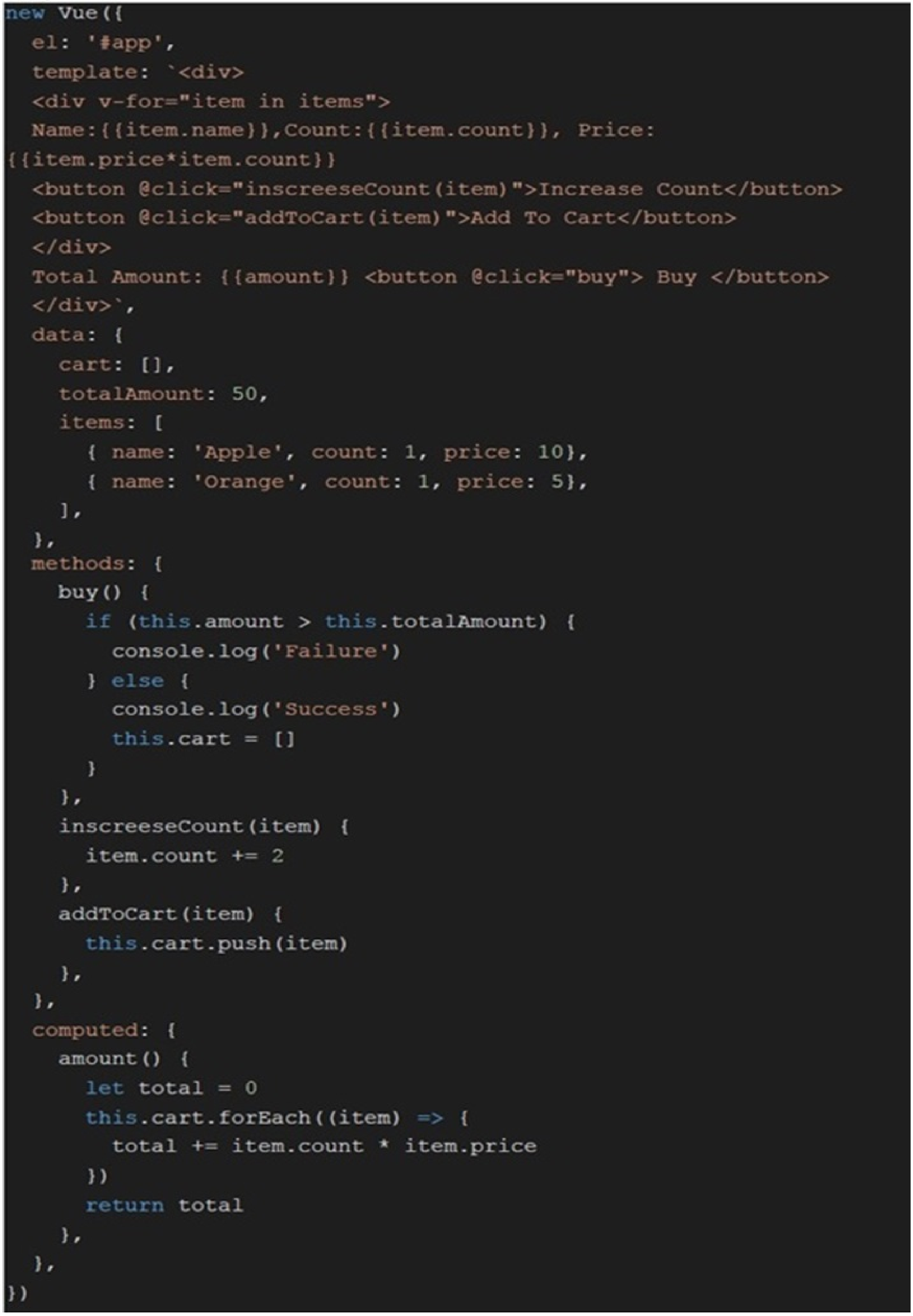
Question Number : 148 Question Id : 640653697709 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

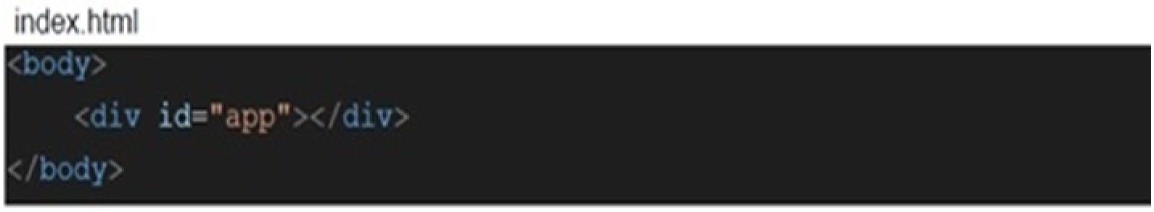
Question Label : Multiple Choice Question

Consider the following Vue application with JavaScript “app.js” and markup “index.html”

app.js

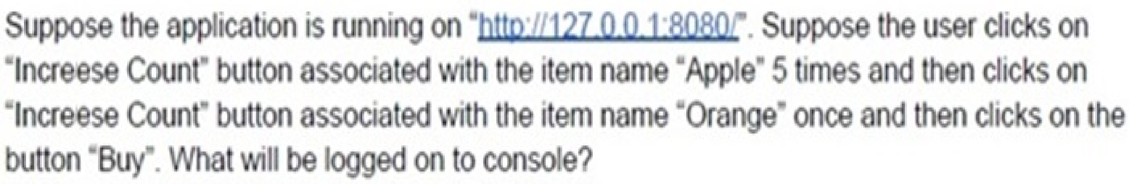


```
new Vue({
  el: '#app',
  template: `<div>
  <div v-for="item in items">
  Name:{{item.name}},Count:{{item.count}}, Price:
{{item.price*item.count}}
  <button @click="inscreeseCount(item)">Increase Count</button>
  <button @click="addToCart(item)">Add To Cart</button>
  </div>
  Total Amount: {{amount}} <button @click="buy"> Buy </button>
  </div>`,
  data: {
    cart: [],
    totalAmount: 50,
    items: [
      { name: 'Apple', count: 1, price: 10},
      { name: 'Orange', count: 1, price: 5},
    ],
  },
  methods: {
    buy() {
      if (this.amount > this.totalAmount) {
        console.log('Failure')
      } else {
        console.log('Success')
        this.cart = []
      }
    },
    inscreeseCount(item) {
      item.count += 2
    },
    addToCart(item) {
      this.cart.push(item)
    },
  },
  computed: {
    amount() {
      let total = 0
      this.cart.forEach((item) => {
        total += item.count * item.price
      })
      return total
    },
  },
})
```



index.html

```
<body>
    <div id="app"></div>
</body>
```



Suppose the application is running on "http://127.0.0.1:8080/". Suppose the user clicks on "Increese Count" button associated with the item name "Apple" 5 times and then clicks on "Increese Count" button associated with the item name "Orange" once and then clicks on the button "Buy". What will be logged on to console?

Options :

6406532330203. ✓ Success

6406532330204. ✗ Failure

6406532330205. ✗ NaN

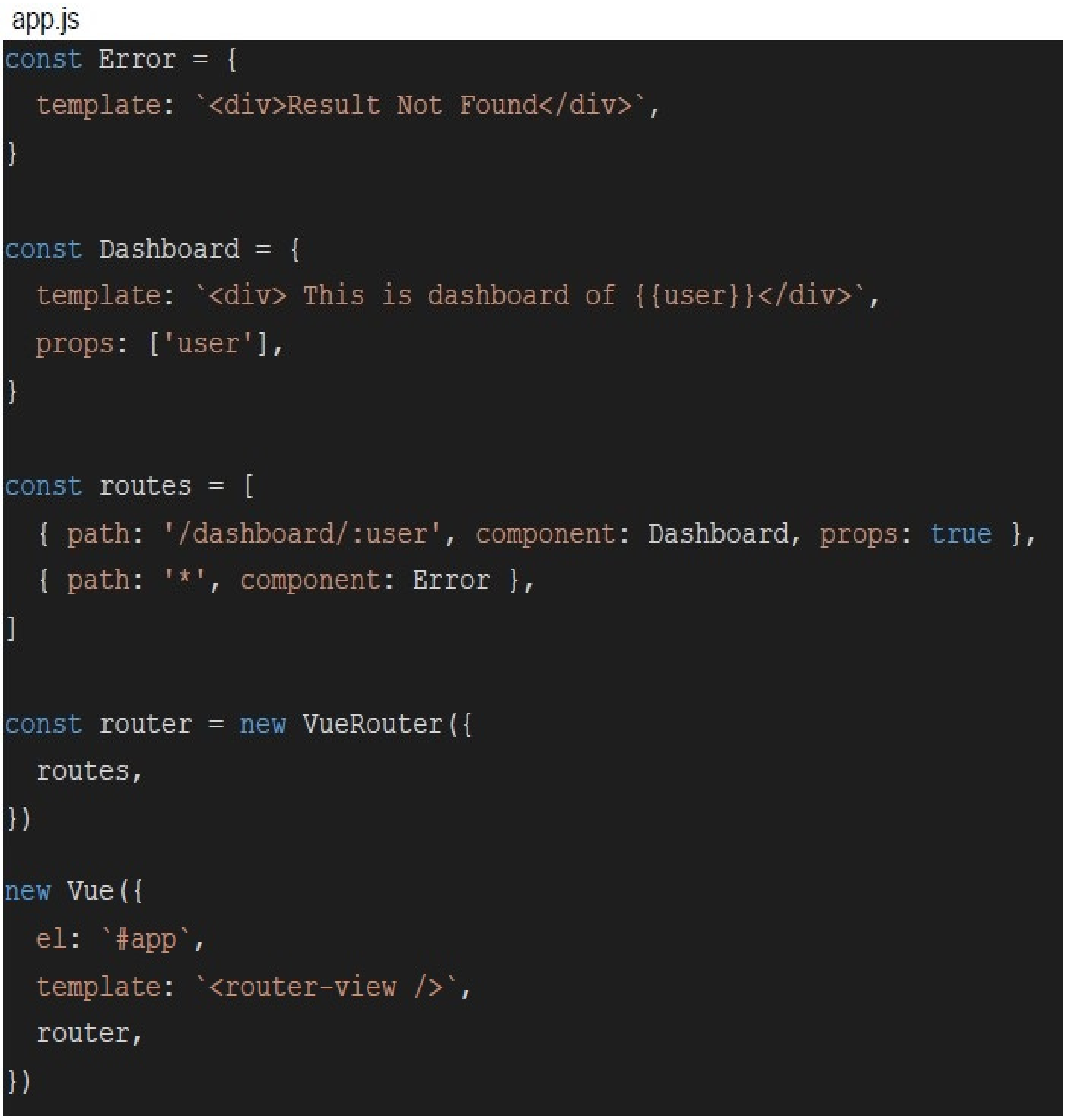
6406532330206. ✗ None of these.

Question Number : 149 Question Id : 640653697711 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

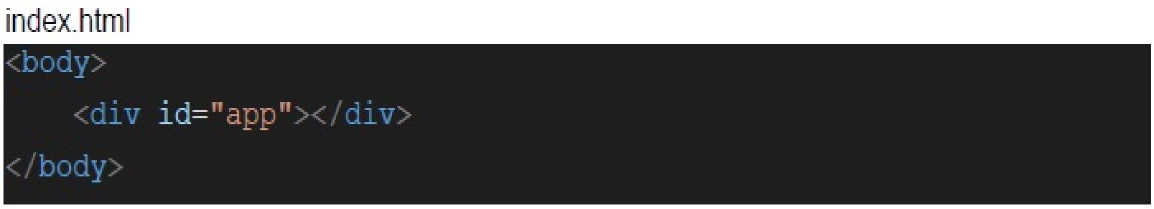
Question Label : Multiple Choice Question

Consider the following Vue app with markup "index.html" and JavaScript "app.js"



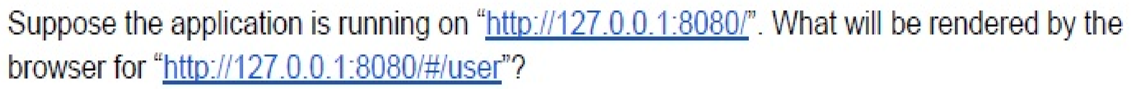
app.js

```
const Error = {
  template: `<div>Result Not Found</div>`,
}

const Dashboard = {
  template: `<div> This is dashboard of {{user}}</div>`,
  props: ['user'],
}

const routes = [
  { path: '/dashboard/:user', component: Dashboard, props: true },
  { path: '*', component: Error },
]

const router = new VueRouter({
  routes,
})

new Vue({
  el: `#app`,
  template: `<router-view />`,
  router,
})
```



index.html

```
<body>
    <div id="app"></div>
</body>
```



Suppose the application is running on "http://127.0.0.1:8080/". What will be rendered by the browser for "http://127.0.0.1:8080/#/user"?

Options :

6406532330211. ✗ This is dashboard of User

6406532330212. ✗ Dashboard

6406532330213. ✗ Error

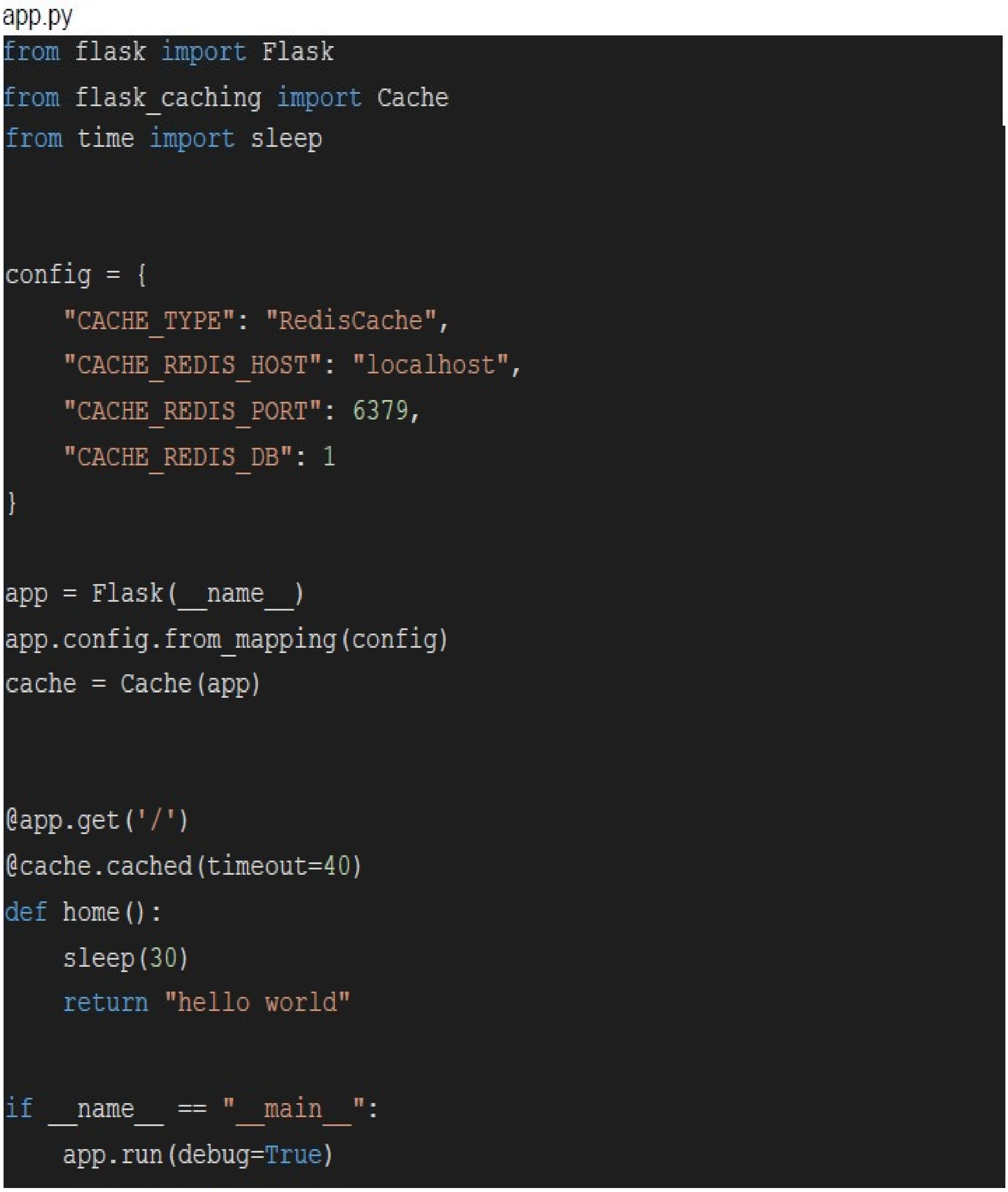
6406532330214. ✓ Result Not Found

Question Number : 150 Question Id : 640653697714 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

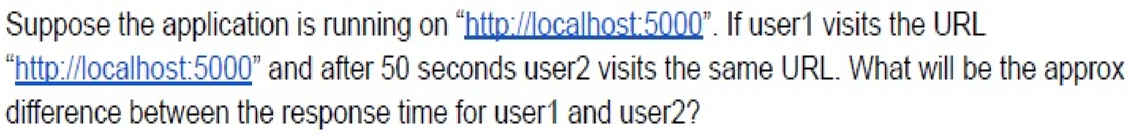
Question Label : Multiple Choice Question

Consider the following flask application.



app.py

```
from flask import Flask
from flask_caching import Cache
from time import sleep


config = {
    "CACHE_TYPE": "RedisCache",
    "CACHE_REDIS_HOST": "localhost",
    "CACHE_REDIS_PORT": 6379,
    "CACHE_REDIS_DB": 1
}

app = Flask(__name__)
app.config.from_mapping(config)
cache = Cache(app)


@app.get('/')
@cache.cached(timeout=40)
def home():
    sleep(30)
    return "hello world"


if __name__ == "__main__":
    app.run(debug=True)
```



Suppose the application is running on “http://localhost:5000”. If user1 visits the URL “http://localhost:5000” and after 50 seconds user2 visits the same URL. What will be the approx difference between the response time for user1 and user2?

Options :

6406532330223. ✔ 0 seconds

6406532330224. ✖ 30 seconds

6406532330225. ✖ 120 seconds

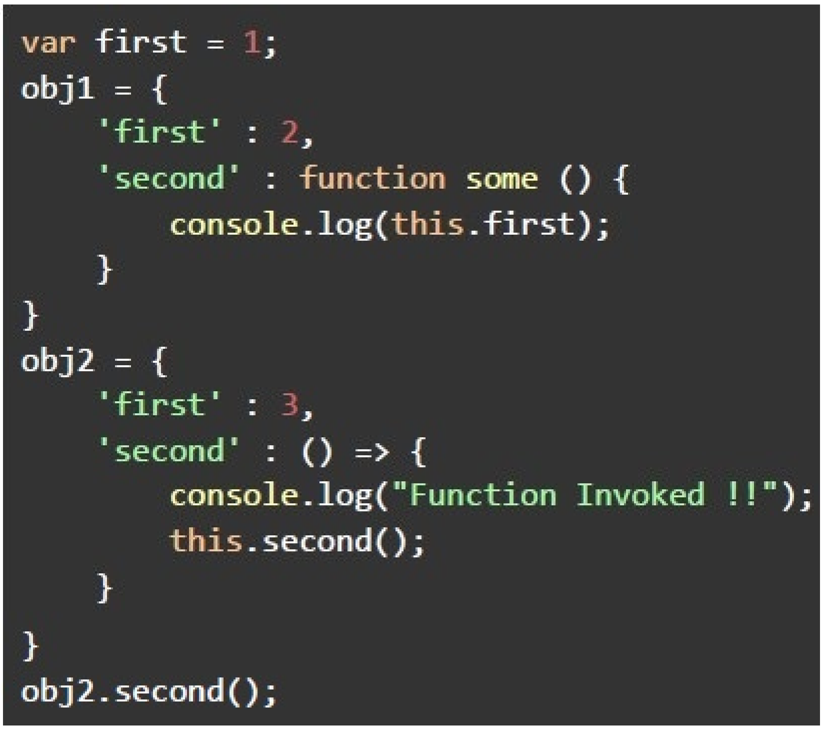
6406532330226. ✖ None of these

Question Number : 151 Question Id : 640653697717 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

Question Label : Multiple Choice Question

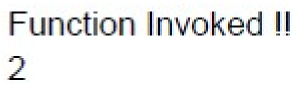
Consider the below javascript program.



```
var first = 1;
obj1 = {
    'first' : 2,
    'second' : function some () {
        console.log(this.first);
    }
}
obj2 = {
    'first' : 3,
    'second' : () => {
        console.log("Function Invoked !!");
        this.second();
    }
}
obj2.second();
```

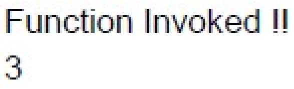
What will be the output of the above program, if executed?

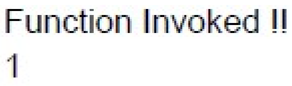
Options :

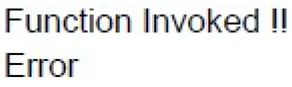
6406532330235. ✖ 

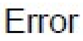
```
Function Invoked !!
2
```

6406532330236. ✖


```
Function Invoked !!
3
```

6406532330237. ✖ 
```
Function Invoked !!
1
```

6406532330238. ✓ 
```
Function Invoked !!
Error
```

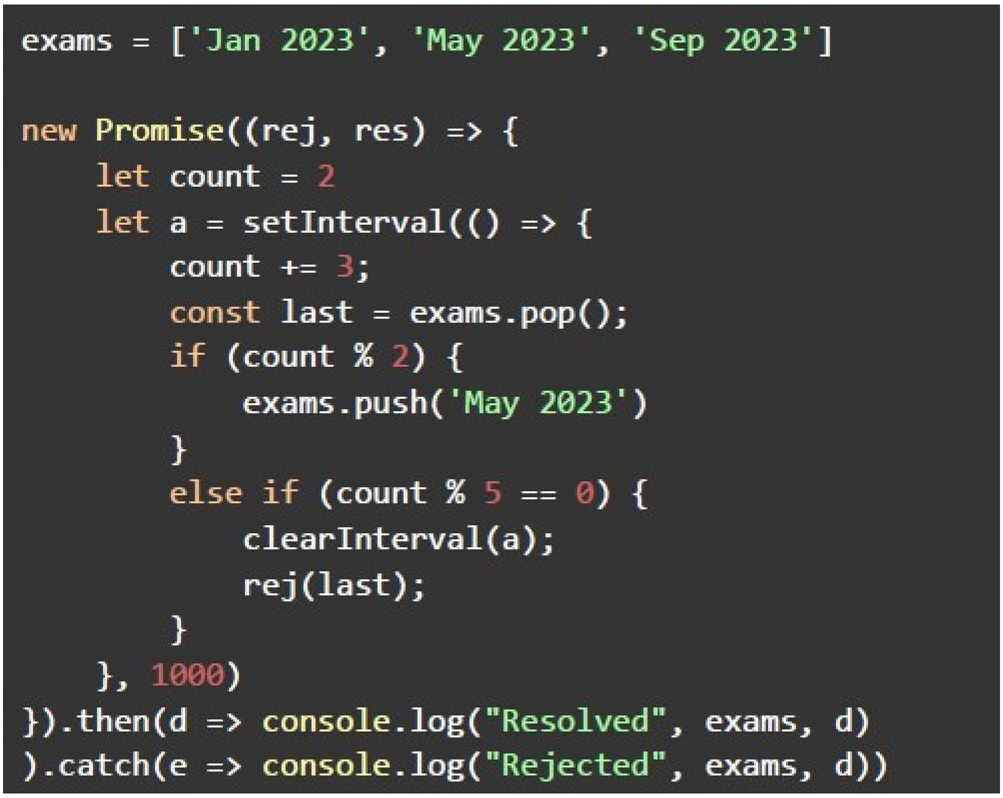
6406532330239. ✖ 
```
Error
```

Question Number : 152 Question Id : 640653697720 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

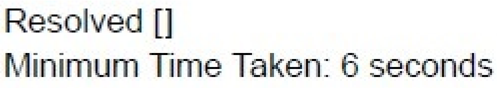
Question Label : Multiple Choice Question

Consider the below javascript program.

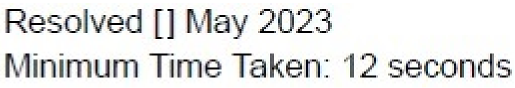

```
exams = ['Jan 2023', 'May 2023', 'Sep 2023']

new Promise((rej, res) => {
    let count = 2
    let a = setInterval(() => {
        count += 3;
        const last = exams.pop();
        if (count % 2) {
            exams.push('May 2023')
        }
        else if (count % 5 == 0) {
            clearInterval(a);
            rej(last);
        }
    }, 1000)
}).then(d => console.log("Resolved", exams, d)
).catch(e => console.log("Rejected", exams, d))
```

What will be the output of the above program, if executed? Also, predict the minimum number of seconds the program will take to complete the execution?

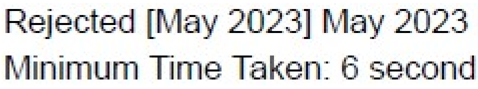
Options :

6406532330248. ✖ 

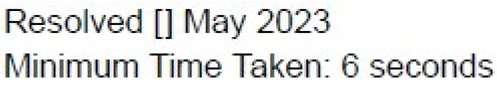
Resolved []
Minimum Time Taken: 6 seconds

6406532330249. ✖ 

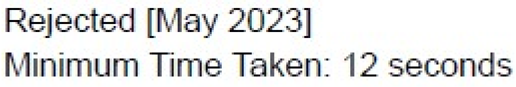
Resolved [] May 2023
Minimum Time Taken: 12 seconds

6406532330250. ✖ 

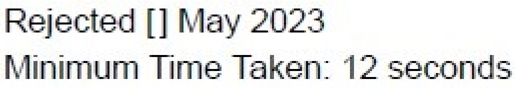
Rejected [May 2023] May 2023
Minimum Time Taken: 6 seconds

6406532330251. ✓ 

Resolved [] May 2023
Minimum Time Taken: 6 seconds

6406532330252. ✖ 

Rejected [May 2023]
Minimum Time Taken: 12 seconds

6406532330253. ✖ 

Rejected [] May 2023
Minimum Time Taken: 12 seconds

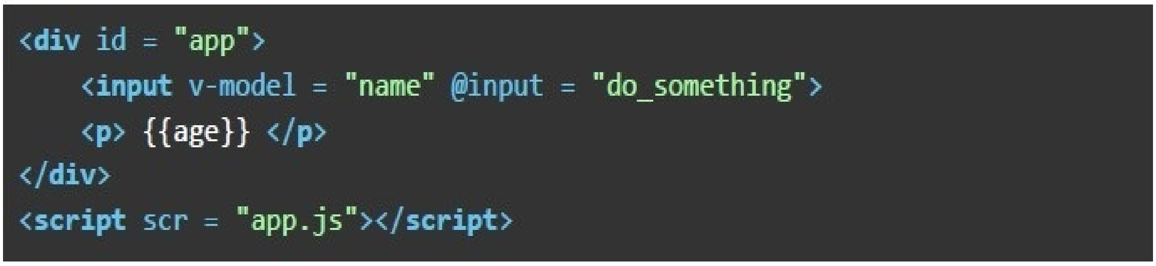
Question Number : 153 Question Id : 640653697721 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

Question Label : Multiple Choice Question

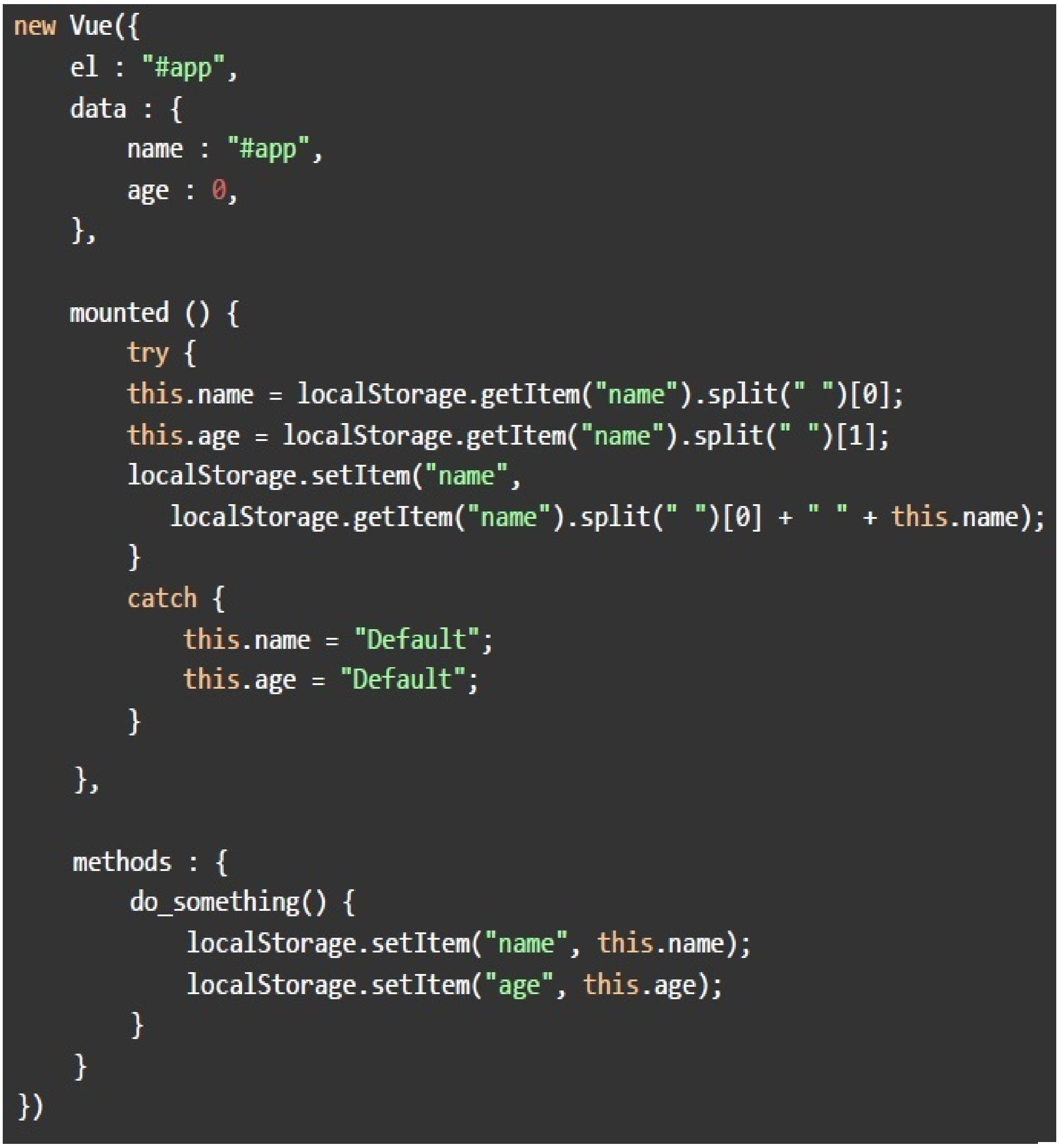
Consider the following Vue application with markup “index.html” and javascript file “app.js”.

index.html:



```
<div id = "app">
    <input v-model = "name" @input = "do_something">
    <p> {{age}} </p>
</div>
<script scr = "app.js"></script>
```

app.js:



```
new Vue({
    el : "#app",
    data : {
        name : "#app",
        age : 0,
    },

    mounted () {
        try {
        this.name = localStorage.getItem("name").split(" ")[0];
        this.age = localStorage.getItem("name").split(" ")[1];
        localStorage.setItem("name",
           localStorage.getItem("name").split(" ")[0] + " " + this.name);
        }
        catch {
            this.name = "Default";
            this.age = "Default";
        }

    },

    methods : {
        do_something() {
            localStorage.setItem("name", this.name);
            localStorage.setItem("age", this.age);
        }
    }
})
```

Suppose you open “index.html” file in a browser, and type the text “IIT Madras” in the text box shown (after removing the previous text, if any), and hard refresh the page twice, without clicking anywhere. What will be the value shown in the text box, and the “age” placeholder, respectively?

Options :

6406532330254. ✖ The app will show an error in the console

6406532330255. ✗ Default, Default

6406532330256. ✗ IIT, Madras

6406532330257. ✓ IIT, IIT

6406532330258. ✗ Madras, IIT

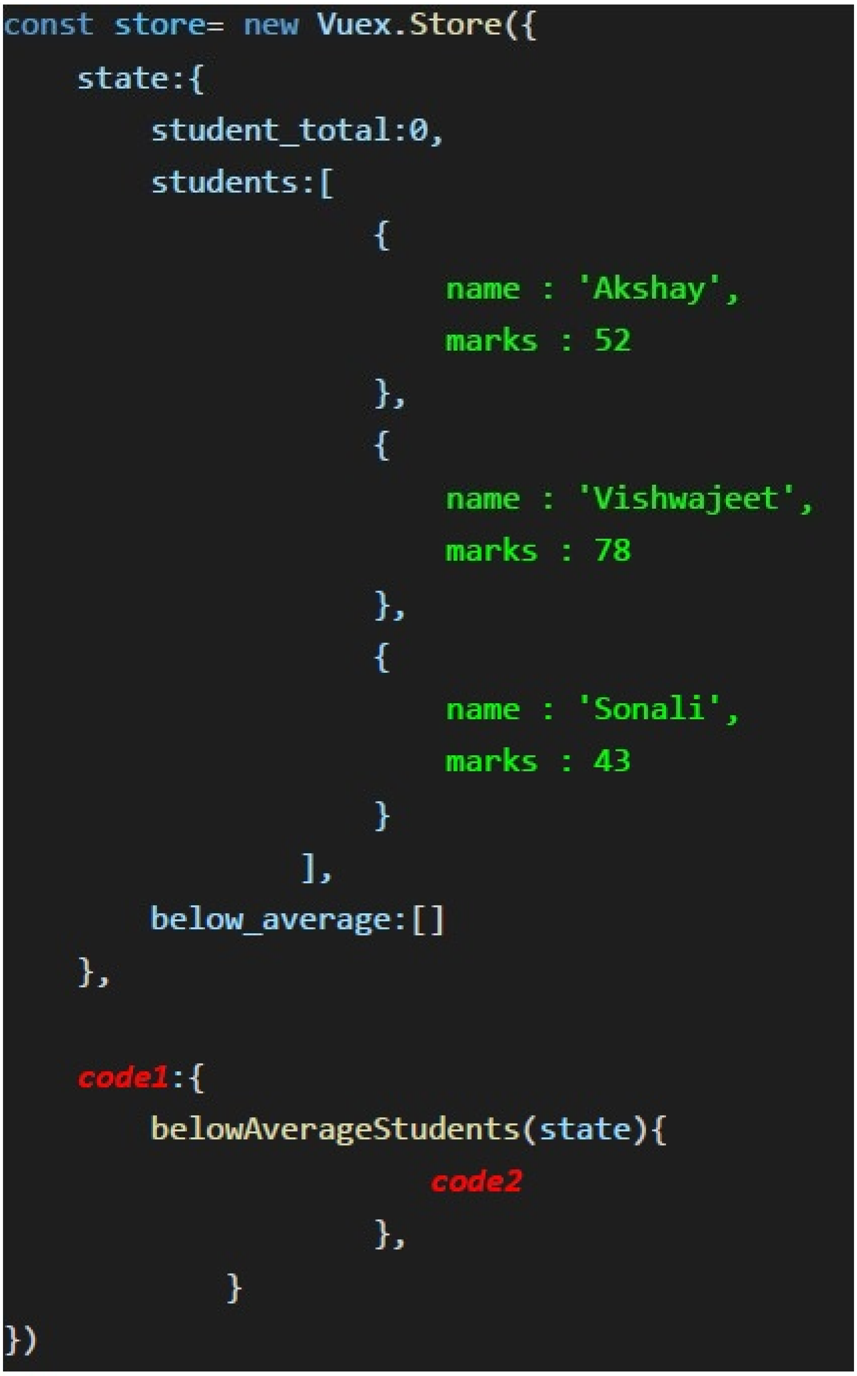
6406532330259. ✗ None of these

Question Number : 154 Question Id : 640653697722 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 4.5

Question Label : Multiple Choice Question

Fill in code1 & code2, which can be used in Vuex Store to update the “below_average” state variable with the objects of those students who have scored more than 50 marks.



```
const store= new Vuex.Store({
    state:{
        student_total:0,
        students:[
                    {
                        name : 'Akshay',
                        marks : 52
                    },
                    {
                        name : 'Vishwajeet',
                        marks : 78
                    },
                    {
                        name : 'Sonali',
                        marks : 43
                    }
                ],
        below_average:[]
    },

    code1:{
        belowAverageStudents(state){
                        code2
                    },
            }
})
```

Options :

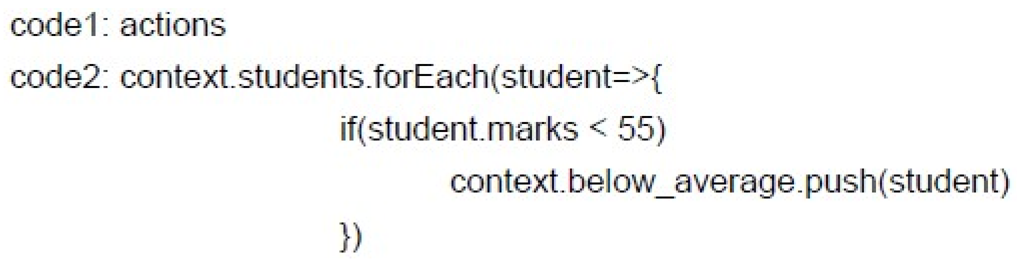
```
code1: mutations
code2: students.forEach(student=>{
                  if(student.marks > 50)
                        below_average.push(student)
                  })
```

6406532330260. ✖

```
code1: actions
code2: state.students.forEach(student=>{
                  if(student.mark > 50)
                        below_average.toppers.push(student)
                  })
```

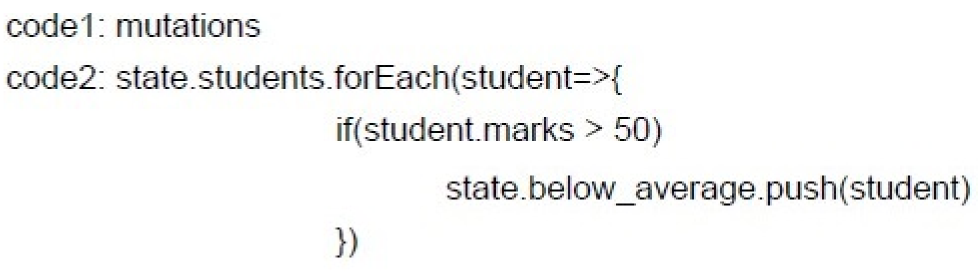
6406532330261. ✖

6406532330262. ✖



```
code1: actions
code2: context.students.forEach(student=>{
                        if(student.marks < 55)
                                context.below_average.push(student)
                        })
```

6406532330263. ✔



```
code1: mutations
code2: state.students.forEach(student=>{
                        if(student.marks > 50)
                                state.below_average.push(student)
                        })
```

MLT

Section Id :	64065349266
Section Number :	7
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	17
Number of Questions to be attempted :	17
Section Marks :	100
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	640653103286
Question Shuffling Allowed :	No