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Curriculum

SE Foundations ⌃
Average: **108.76%** ⌄

Evaluation quiz correction

Evaluation Quiz: Evaluation #7

Date: 2023-10-09

Status: Done

Duration: 24 minutes

Score: 83.33%

 # "I don't know": 0

 # Success: 15

 # Fail: 3

Responses

0. In the following URL, what's the sub domain?

`https://api.google.com/v1/auth`

Score: 1.0

- ☐ .com
- ☐ api.google
- ☑ **api**
- ☐ https
- ☐ I don't know

1. What are the characteristics of a REST-ful API?

(Select all valid answers)
 (/)
Score: 0.0

☑ **Uniform Interface**

☑ **Cacheable**

☑ **Client-Server**

☑ **Layered System**

☑ **Stateless**

☑ **Extendable**

☐ I don't know

2. Which symbol should I use to redirect the error output to the standard output?

Score: 1.0

☑ **2>&1**

☐ 1>&2

☐ 2>

☐ I don't know

3. What is in-order traversal?

Score: 1.0

☑ **the left subtree is visited first, then the root and later the right sub-tree**

☐ the root node is visited first, then the left subtree and finally the right subtree

☐ left subtree is visited first, then the right subtree and finally the root node

☐ I don't know

4. What do these lines print?

🔍

```
>>> class User:
>>>     id = 89
>>>     name = "no name"
>>>     __password = None
>>>
>>>     def __init__(self, new_name=None):
>>>         self.is_new = True
>>>         if new_name is not None:
>>>             self.name = new_name
>>>
>>> u = User()
>>> u.name
```

Score: 1.0

☐ name

☐ None

☐ 'John'

☑ **'no name'**

☐ I don't know

5. What does this code print?

```
void print(int nb)
{
    printf("%d", nb);
    -- nb;
    if (nb > 0)
    {
        print(nb);
    }
}

int main(void)
{
    print(4);
    return (0);
}
```

Score: 1.0

☑ **4321**

☐ 43210

☐ 321

☐ 3210

☐ I don't know
  (/)

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6. What is the time complexity (worst case) of a binary search in an array of size `n` ?

Score: 1.0

☑ **O(log(n))**

☐ O(1)

☐ O(n!)

☐ O(n^2)

☐ I don't know

7. When you are typing `https://intranet.hbtn.io` in your browser, which HTTP verb is used?

Score: 1.0

☐ POST

☐ DELETE

☑ **GET**

☐ POST

☐ I don't know

8. What is the space complexity of this function / algorithm?

```
int **allocate_map(int n, int m)
{
    int **map;

    map = malloc(sizeof(int *) * n);
    for (size_t i = 0; i < n; i++)
    {
        map[i] = malloc(sizeof(int) * m);
    }
    return (map);
}
```

Score: 1.0

- ☑ **O(nm)**
- ☐ **(/)**
  O(n^2)
- ☐ O(log(n))
- ☐ O(1)
- ☐ I don't know

9. What is the `curl` option that defines the HTTP method used?

Score: 0.0

- ☐ -d
- ☐ **-X**
- ☑ **-s**
- ☐ -M
- ☐ I don't know

10. What is a web framework?

Score: 1.0

- ☑ **A software framework that is designed to support the development of web applications**
- ☐ A software, or hardware dedicated to running web applications
- ☐ A program that handles all application operations
- ☐ I don't know

11. What's the status code number for a permanent redirection (moved permanently)?

Score: 1.0

- ☐ 201
- ☐ 300
- ☑ **301**
- ☐ 302
- ☐ 304

☐ I don't know
   (/)

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12. What does CORS stand for?

Score: 1.0

☑ **Cross-Origin Resource Sharing**

☐ Cross-Origin Route Sharing

☐ Cross-Operator Resource Sharing

☐ Create-Object Resource Sharing

☐ I don't know

13. What is the output of the following piece of code?

```
int i;

i = 10;
while (i < 20)
{
    printf("%d", i % 2);
    i++;
}
```

Score: 1.0

☑ **0101010101**

☐ 0123456789

☐ 1010101010

☐ I don't know

14. `0x13` **<< 1 = ?**

Score: 1.0

☐ 0x13

☐ 0x12

☑ **0x26**

☐ 0x4C

☐ I don't know

(/)

15. What is the name of the HTTP request header that defines the size (in bytes) of the message body?

Score: 1.0

☑ **Content-Length**

☐ Length

☐ Content-Size

☐ Size

☐ I don't know

16. What is the first digit of status codes that indicate a server error?

Score: 1.0

☐ 1XX

☐ 2XX

☐ 3XX

☐ 4XX

☑ **5XX**

☐ I don't know

17. What request methods does this line of code below allow?

```
@app.route('/test')
```

Score: 0.0

☐ **GET**

☐ PUT

☑ **POST**

☐ I don't know

(/)