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Curriculum

SE Foundations ^

Average: 108.76% v

Evaluation quiz correction

Evaluation Quiz: Evaluation #5**Date:** 2023-07-25**Status:** Done**Duration:** 24 minutes**Score:** 68.42%

"I don't know": 0

Success: 13

Fail: 6

Responses

0. What is the OSI model?

Score: 1.0

- ☐ Set of specifications that network hardware manufacturers must respect
- ☒ **The OSI model is a conceptual model that characterizes the communication functions of a telecommunication system without regard to their underlying internal structure and technology**
- ☐ The OSI model is a model that characterizes the communication functions of a telecommunication system with a strong regard for their underlying internal structure and technology
- ☐ I don't know



1. What do these lines print?

[Help](#)

```
>>> def my_function(counter=89):  
>>>     print("Counter: {}".format(counter))  
>>>  
>>> my_function(12)
```

Score: 1.0

- ☒ **Counter: 12**
- ☐ Counter: 89
- ☐ Counter: 101
- ☐ I don't know

2. What is localhost ?

Score: 1.0

- ☒ **A hostname that refers to the current computer used to access it**
- ☐ An IP address for the current computer used to access it
- ☐ A hostname that refers to all computers
- ☐ An IP address meaning "all IPv4 addresses"
- ☐ I don't know

3. What are the layers of the OSI model?

Score: 1.0

- ☒ **Physical, Data Link, Network, Transport, Session, Presentation, Application**
- ☐ Physical, Network, Transport, Presentation, Application
- ☐ Application, Session, Information, Packets, TCP/UDP
- ☐ Physical, Network, Transport, Session, Presentation, Application
- ☐ I don't know

4. Is this a standardized way to comment a function in Python?



```
// Addition function  
def add(a, b):  
    return a + b
```

Score: 1.0

- ☒ **No**
- ☐ Yes
- ☐ I don't know

5. The Internet Control Message Protocol (ICMP) is a protocol in the Internet protocol suite. It is used by network devices, to check if other network devices are available on the network. Which command uses ICMP to make sure that a network device remains online or to troubleshoot issues on the network?

Score: 1.0

- ☒ **ping**
- ☐ nc
- ☐ telnet
- ☐ grep
- ☐ I don't know

6. What is the time complexity of this function / algorithm?



```
void f(int n)
{
    int i;
    int j;

    for (i = 0; i < n; i++)
    {
        if (i % 2 == 0)
        {
            for (j = 1; j < n; j = j * 2)
            {
                printf("[%d] [%d]\n", i, j);
            }
        }
        else
        {
            for (j = 0; j < n; j = j + 2)
            {
                printf("[%d] [%d]\n", i, j);
            }
        }
    }
}
```

Score: 1.0

- ☐ O(1)
- ☐ O(n)
- ☐ O(n!)
- ☒ **O(n^2)**
- ☐ O(log(n))
- ☐ O(nlog(n))
- ☐ O(2^n)
- ☐ I don't know

7. What is the /School/ regex matching?

Select all valid answers

Score: 0.0

- ☐ scho0l
- ☒ **School**
- ☒ **school**
- ☐ I don't know



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8. What is 0b001010010 in base10?

Score: 1.0

- ☐ 81
- ☒ 82
- ☐ 83
- ☐ 84
- ☐ I don't know

9. What command displays information about active processes?

Score: 1.0

- ☒ ps
- ☐ pgrep
- ☐ pkill
- ☐ kill
- ☐ trap
- ☐ I don't know

10. What command would you use to stop a process named dontstopmenow ?

Score: 1.0

- ☒ pkill -f dontstopmenow
- ☐ kill -f dontstopmenow
- ☐ kill dontstopmenow
- ☐ pgrep -f dontstopmenow
- ☐ I don't know



11. What does the macro TABLESIZE expand to? (/)

```
#define BUFSIZE 1220  
#define TABLESIZE BUFSIZE  
#undef BUFSIZE  
#define BUFSIZE 49
```

Score: 0.0

- ☒ 1220
- ☐ 49
- ☐ nothing
- ☐ I don't know

12. What is /etc/hosts ?

Score: 0.0

- ☒ A plain text file used to translate hostnames into IP addresses
- ☐ A Python script used to translate hostnames into IP addresses
- ☐ A plain text file used to translate IP addresses into hostnames
- ☒ A plain text file used by other computers to know the name of your computer
- ☐ I don't know

13. What is a Makefile?

Score: 1.0

- ☒ file which defines a set of tasks to be executed
- ☐ a command which makes a file to define a set of tasks to be executed
- ☐ a file that makes a new shell window
- ☐ I don't know

14. What is the /Scho*l/ regex matching?

Select all valid answers

Score: 0.0



☒ **School**☐ Schol☒ **Scho.l**☐ Schoooooo☐ I don't know

15. What command would you use to list files on Linux?

Score: 1.0

☒ **ls**☐ which☐ cd☐ pwd☐ list☐ I don't know

16. What is the time complexity of this function / algorithm?

```
void f(unsigned int n)
{
    int i;

    for (i = 1; i < n; i = i * 2)
    {
        printf("[%d]\n", i);
    }
}
```

Score: 0.0

☐ O(1)☒ **O(n)**☐ O(n!)☐ O(n^2)☐ **O(log(n))**☐ O(nlog(n))☐ O(2^n)☐ I don't know

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17. What is the time complexity of removing at index n in an unsorted array?

Score: 1.0

- ☐ $O(1)$
- ☒ $O(n)$
- ☐ $O(n!)$
- ☐ $O(n^2)$
- ☐ $O(\log(n))$
- ☐ $O(n\log(n))$
- ☐ $O(2^n)$
- ☐ I don't know

18. What is the `/Scho.l/` regex matching?

Select all valid answers

Score: 0.0

- ☒ **Scho.l**
- ☐ **School**
- ☐ school
- ☐ I don't know

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