(/)

Evaluation quiz correction

Evaluation Quiz: Evaluation #0

Date: 2022-04-15

Status: Done

Duration: 14 minutes (including 6 minutes, 59 seconds not on the page)

Score: 85.71%

 # "I don't know": 2

 # Success: 11

 # Fail: 1

Responses

0. What shape will this code print?

Score: 1.0

```c
#include <stdio.h>
(/)

/**
* print_shape - function to print a shape
* /
void print_shape(int num1, int num2)
{
    int idx1, idx2;
    for (idx1 = 0; idx1 < num1; idx1++)
    {
        for (idx2 = 0; idx2 < num2; idx2++)
        {
            printf('#');
        }
        printf('\n');
    }
}

/**
* main - calls print_shape()
*
* Return: Always 0.
**/

int main(void)
{
    print_shape(4, 3);
    return (0);
}
```

☑ **A rectangle with the character # with a height of 4 and width of 3**

☐ A rectangle with the character # with a height of 3 and width of 4

☐ A triangle with the character # with a base of 4 and height of 3

☐ A rectangle with the character * with a height of 4 and width of 3

☐ I don't know

1. What does this code print?

Score: 1.0

```
 * print_something - function to print something
 (/)
 *
 * Return: Always 0
 **/
int print_something(int num)
{
    int i, j;
    for (i = 0; i < num + 1; i++)
    {
        for (j = 0; j < num + 1; j++)
        {
            printf("%d", i * j);
            if (j < num)
            {
                printf(", ");
            }
        }
        printf("\n");
    }
    return (0);
}
```

- ☑ **The `n` times table, starting with 0**
- ☐ The `n` times table, excluding zero
- ☐ The numbers 0 to `n`, `n` times
- ☐ I don't know

2. Which command should I use to display the exit code of the previous command?

Score: 0.5

- ☐ `echo ?`
- ☐ `echo $EXITCODE`
- ☐ `echo $CODE`
- ☐ **`echo $?`**
- ☑ I don't know

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

Score: 1.0

```
int(/)i;

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

☑ **0101010101**
☐ 0123456789
☐ 1010101010
☐ I don't know

4. Which of these loop statements exist in C?

Score: 1.0

Select all valid answers

☑ **for**
☑ **while**
☐ foreach
☑ **do...while**
☐ loop_to
☐ each
☐ I don't know

5. What information do the `printf` statements tell us about how our code is executed?

Score: 0.0

This code doesn't work as intended.

```
#include "school.h"
(/)
/**
 * main - prints even numbers from 0 to 100
 * Return: 0
 */

int main(void)
{
        int i;

        for (i = 0; i < 100; i++)
        {
                if (i % 2 != 0)
                {
                        continue;
                }
                else
                {
                        break;
                }

                printf("%d\n", i);
        }

        return(0);
}
```

Let's add `printf` statements to the code.

```
#include "school.h"
    (/)

/**
 * main - prints even numbers from 0 to 100
 * Return: 0
 */

int main(void)
{
        int i;

        printf("Before loop\n");

        for (i = 0; i < 100; i++)
        {
                if (i % 2 != 0)
                {
                        printf("i is not even so don't print\n");
                        continue;
                }
                else
                {
                        printf("i is even, break to print\n");
                        break;
                }

                printf("Outside of if/else, still inside for loop\n");

                printf("%d\n", i);
        }

        printf("For loop exited\n");

        return(0);
}
```

What information do the `printf` statements tell us about how our code is executed? (select all valid statements)

- [ ] **A `printf` statement shows when the for loop is finished**
- [x] **A `printf` statement shows exactly how many times the loop executes**
- [x] **`printf` statements shows that break will cause "For loop exited" to print, indicating that the even number is never printed**
- [ ] A `printf` statement shows that there is an infinite loop in the code
- [ ] I don't know

6. What is the problem with the following C code?

Score: 1.0
    (/)

```
#include <stdio.h>

/**
* main - main function
* Return: 0
*/

int main(void)
{
        int i;

        i = 65;

        while (i < 91)
        {
                putchar(i);
        }

        return (0);
}
```

☑ **`i` is not incremented in the while loop, so an infinite loop occurs**

☐   `i` is not incremented outside the loop, so an infinite loop occurs

☐   You cannot use integers in `putchar()`

☐   I don't know

7. Which command should I use for changing a file owner?

Score: 1.0

☐   su

☐   chmod

☑   **chown**

☐   chgrp

☐   I don't know

8. What are the different steps to form an executable file from C source code?

Score: 1.0

- [ ] Interpretation, compilation and assembly
- [x] **Preprocessing, compilation, assembly, and linking** *(I)*
- [ ] Interpretation, assembly and compilation
- [ ] Compilation and linking
- [ ] Preprocessing and compilation
- [ ] I don't know

9. How do you change directory on Linux?

Score: 1.0

- [ ] pwd
- [x] **cd**
- [ ] ls
- [ ] which
- [ ] I don't know

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

Score: 0.5

- [ ] **2>&1**
- [ ] 1>&2
- [ ] 2>
- [x] I don't know

11. What is the size of the `float` data type on a 64-bit machine?

Score: 1.0

- [ ] 1 byte
- [ ] 2 bytes
- [x] **4 bytes**
- [ ] 8 bytes
- [ ] I don't know

12. What command would you use to list files on Linux? (/)

Score: 1.0

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

13. What is the numerical value for the `r-xr--r--` permission?

Score: 1.0

- ☐ 522
- ☑ **544**
- ☐ 644
- ☐ 411
- ☐ I don't know