Evaluation quiz correction

Evaluation Quiz: Evaluation #0

Date: 2022-03-18

Status: Done

Duration: 52 minutes (including 45 minutes, 56 seconds not on the page)

Score: 85.71%

 # "I don't know": 0

 # Success: 12

 # Fail: 2

Responses

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

Score: 1.0

- ☐ Interpretation, compilation and assembly
- ☑ **Preprocessing, compilation, assembly, and linking**
- ☐ Interpretation, assembly and compilation
- ☐ Compilation and linking
- ☐ Preprocessing and compilation
- ☐ I don't know

1. 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"

/**
```

```c
 * 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**
- ☐ A `printf` statement shows exactly how many times the loop executes
- ☐ **`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

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

Score: 1.0

```c
#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

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

Score: 1.0

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

4. 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

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

Score: 1.0

- ☐ 1 byte
- ☐ 2 bytes
- ☑ **4 bytes**
- ☐ 8 bytes
- ☐ I don't know

6. 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

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

Score: 1.0

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

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

Score: 0.0

- ☐ **2>&1**
- ☐ 1>&2
- ☑ **2>**
- ☐ I don't know

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

Score: 1.0

- ☐ su
- ☐ chmod

- ☑ **chown**
- ☐ chgrp
- ☐ I don't know

10. *How do you change directory on Linux?*

Score: 1.0

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

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

Score: 1.0

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

12. *What shape will this code print?*

Score: 1.0

```
#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

13. Which of these loop statements don't exist in C?

Score: 1.0

Select all valid answers

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