



Curriculum

**SE Foundations** ^

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# Evaluation quiz correction

**Evaluation Quiz:** Evaluation #0**Date:** 2023-07-21**Status:** Done**Duration:** 41 minutes**Score:** 100.0%

# "I don't know": 0

# Success: 14

# Fail: 0

## Responses

### 0. Which of these loop statements exist in C?

Select all valid answers

**Score:** 1.0

- ☒ **for**
- ☒ **while**
- ☐ foreach
- ☒ **do...while**
- ☐ loop\_to



- ☐ each
  - ☐ I don't know
- 

### 1. 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

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

Score: 1.0

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

### 3. 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



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

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)

Score: 1.0

- ☒ **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



## 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 shape will this code print?

```
#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);
}
```



Score: 1.0

- ☒ **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

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

Score: 1.0

- ☐ su
- ☐ chmod
- ☒ chown
- ☐ chgrp
- ☐ I don't know

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

Score: 1.0

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

## 9. 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

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

Score: 1.0

☐ pwd

☒ cd

☐ ls

☐ which

☐ I don't know

## 11. 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

## 12. What is the problem with the following C code?



```
#include <stdio.h>

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

int main(void)
{
    int i;

    i = 65;

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

    return (0);
}
```

**Score:** 1.0

- ☒ **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

**13. What does this code print?**





```
* //int_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);
}
```

**Score:** 1.0

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

