

Spring 2022 courses

DONE cc quiz 4 - main, constants, naming

Settings

- A question has only ONE right answer unless otherwise noted
- The quiz covers last week's content
- After the first play, the quiz will be opened for unlimited play
- Let me know if you have any comments or corrections

Exponentiation in C

foo is a variable. How can I compute foo^2 ?

TRUE:

- `foo * foo`

FALSE:

- `foo^2`
- `foo**2`
- `foo x foo`

What does the word `int` right before `main()` mean?

TRUE:

- The function returns an integer value

FALSE:

- The function contains integer variables
- `main()` is not a function, it's a variable
- The program will always return a 0.

What does `void` in `main(void)` mean?

TRUE:

- The function does not take input

FALSE:

- The function will not return any output
- `main(void)` is an empty function (no statements)
- The program will always return a 0.

Be the compiler! Identify the choices that would fix the program.

The program should print

```
foo is 100, and bar is 200
```

but it won't even compile! What's wrong?

Note: there are **two** things wrong with this program.

```
#include <stdio.h>

float main(void) {

    int foo = 100, bar;
    printf("foo is %d, and bar is %d\n", foo, bar = 200);

    return 0;
}
```

TRUE:

- The pre-processor declaration does not need a semi-colon
- The main() function should be int and not float

FALSE:

- You cannot assign a value to bar inside the printf() function
- You cannot assign a value to foo when declaring the type as int

Which of these are not legal identifiers?

TRUE:

- 100_bottles
- bottles-100

FALSE:

- _100_bottles
- one__hundred__bottles

```
int 100_bottles;
int bottles-100;
int _100_bottles;
int one__hundred__bottles;
```

This code will not compile because the return 0; is missing at the end of main()

```
int main(void) {
    // nothing to see or do here
}
```

FALSE

Which of the following are keywords in C?

TRUE:

- int
- return

FALSE:

- integer
- print

Of the three ways to define constants, only const protects constants against change

Note: the other two ways are (1) using a #define preprocessor declaration, and (2) #include a library, like math.h for mathematical constants.

TRUE

Mary Poppins says - Be the compiler!

The following program should print the string "Superfragilisticexpialodotious". It compiles, it runs, but no output is generated. In Org-mode, I get the message "Code block produced no output". Where is the mistake?

```
#include <stdio.h>

int main(void) {

    int mary_poppins_says(void) {
        puts("Superfragilisticexpialodotious");
        return 0;
    }
    return 0;
    // function call
    mary_poppins_says();
}
```

C

TRUE:

- The function call mary_poppins_says() needs to be inside the main() function

FALSE:

- The main() function cannot have void as an argument
- Only one return 0; is needed, the other one is unnecessary
- The name of the function mary_poppins_says() is too long

HelloWorld() is a better naming choice than Hello_World().

FALSE

Author: Marcus Birkenkrahe

Created: 2022-02-27 Sun 22:05

[Validate](#)