

Solution: Fix the Code

This lesson provides a solutions to the challenge given in the previous lesson.

WE'LL COVER THE FOLLOWING ^

- Compilation error reason
- Solution 1
- Solution 2

Compilation error reason

The following line causes a compilation error:

```
int amount = 10_000_000_000;
```

The problem here is that the value on the right-hand side is too large to fit in an `int`. According to the rules of integer literals, its type is `long`. For that reason, it doesn't fit the type of the variable on the left-hand side. There are at least two solutions.

Solution 1

One solution is to leave the type of the variable to the compiler for example by the `auto` keyword:

```
import std.stdio;

void DisplayAmount() {
    auto amount = 10_000_000_000;

    write(amount);
}
```



The type of `amount` would be deduced to `long` from its initial value from the right-hand side.

Solution 2

Another solution is to make the type of the variable `long` as well:

```
import std.stdio;

void main() {
    long amount = 10_000_000_000;

    writeln(amount);
}
```



Code fixed using long keyword

In the next lesson, we will explore character and string literals.