

# Review the solution to the improve code readability challenge activity

4 minutes

The following code is one possible solution for the challenge from the previous unit.

```
c#  
  
/*  
    This code reverses a message, counts the number of times  
    a particular character appears, then prints the results  
    to the console window.  
*/  
  
string originalMessage = "The quick brown fox jumps over the lazy dog.";  
  
char[] message = originalMessage.ToCharArray();  
Array.Reverse(message);  
  
int letterCount = 0;  
  
foreach (char letter in message)  
{  
    if (letter == 'o')  
    {  
        letterCount++;  
    }  
}  
  
string newMessage = new String(message);  
  
Console.WriteLine(newMessage);  
Console.WriteLine($"'o' appears {letterCount} times.");
```

This code is merely "*one possible solution*". You may have come up with some different variable names and different vertical spacing and tab indentation. Here's a list of changes that were made.

- The code includes a higher-level description of what the entire code listing is attempting to accomplish in a multi-line comment at the top. You could argue that this is a small improvement over the original code comments, however, given the challenge's description of the code, there wasn't much more context available.

- The individual comments were removed because they weren't providing any real insight into the code's purpose or function.
- Several blank lines were added to improve the phrasing of the code listing. Keep code lines together when they appear similar, or when they work with each other to accomplish a small task.
- Line feeds and tabs were added to improve the appearance of the `foreach` statement and the `if` statement.
- Local variable naming conventions were applied to better convey the purpose of each value.

If you identified the same issues and addressed them in a similar way, congratulations! Continue on to the knowledge check in the next unit.

#### Important

If you had trouble completing this challenge, maybe you should review the previous units before you continue on.

## Module complete:

Unlock achievement