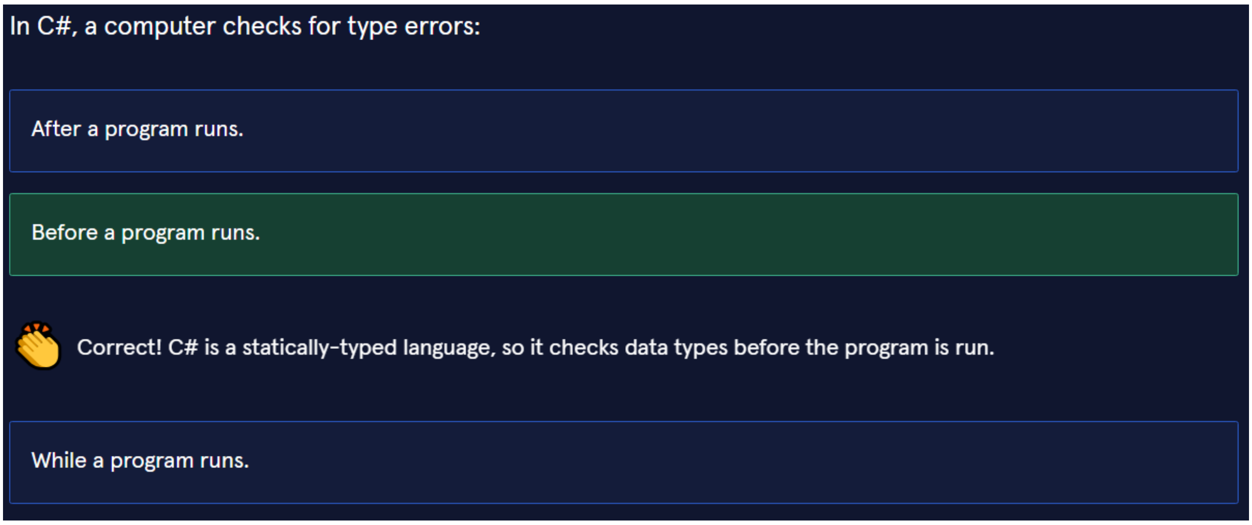
QUIZ



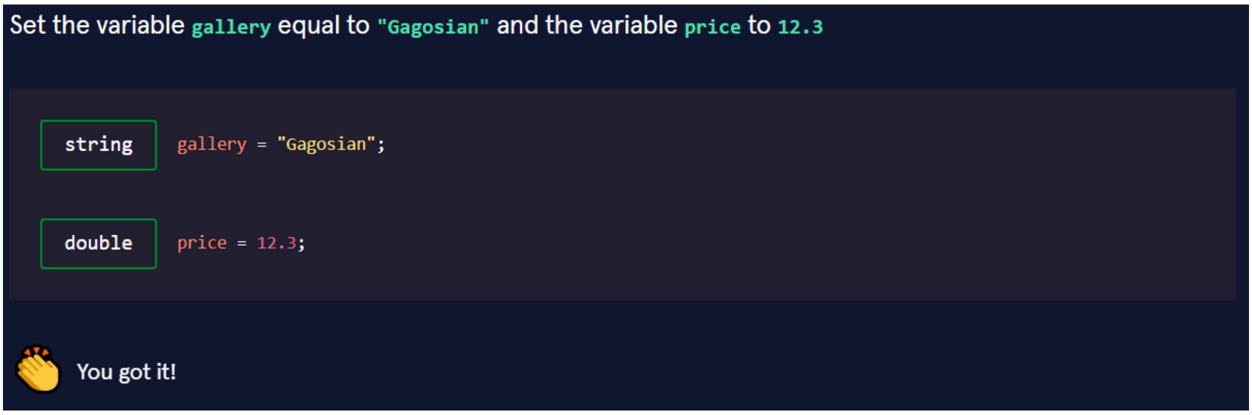
In C#, a computer checks for type errors:

After a program runs.

Before a program runs.

👏 Correct! C# is a statically-typed language, so it checks data types before the program is run.

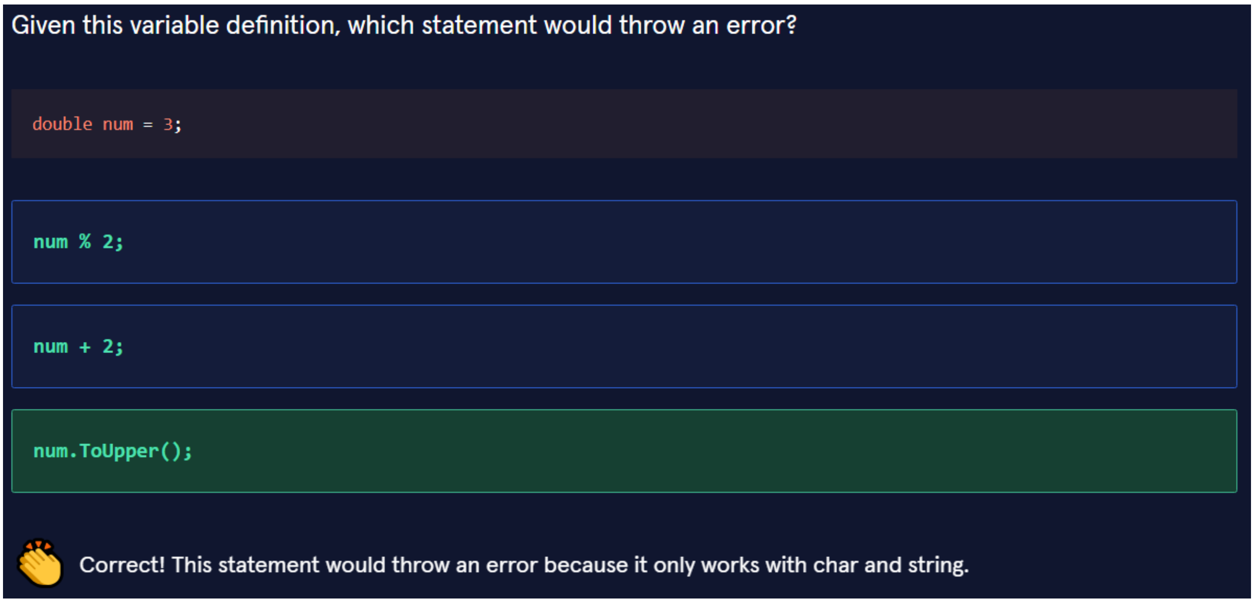
While a program runs.



Set the variable `gallery` equal to `"Gagosian"` and the variable `price` to `12.3`

```
string gallery = "Gagosian";

double price = 12.3;
```

👏 You got it!



Given this variable definition, which statement would throw an error?

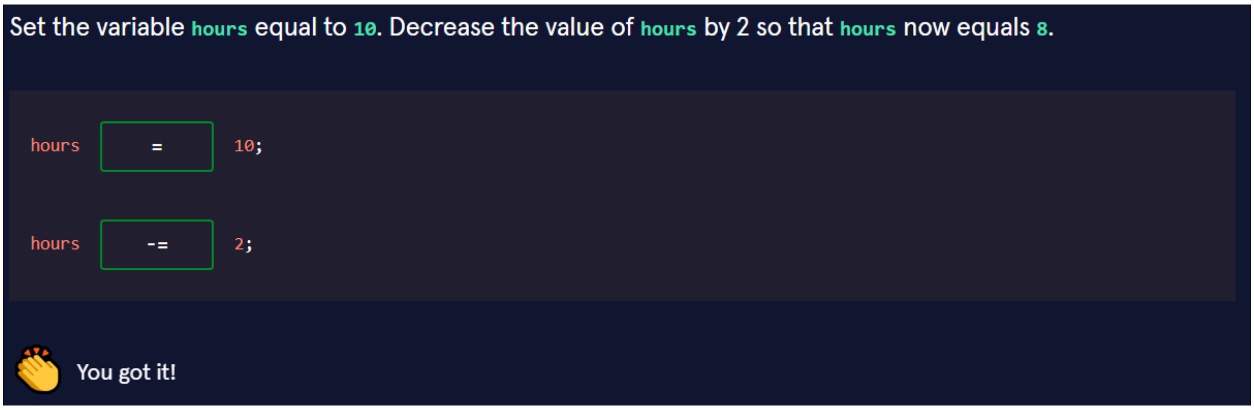
```
double num = 3;
```

`num % 2;`

`num + 2;`

`num.ToUpper();`

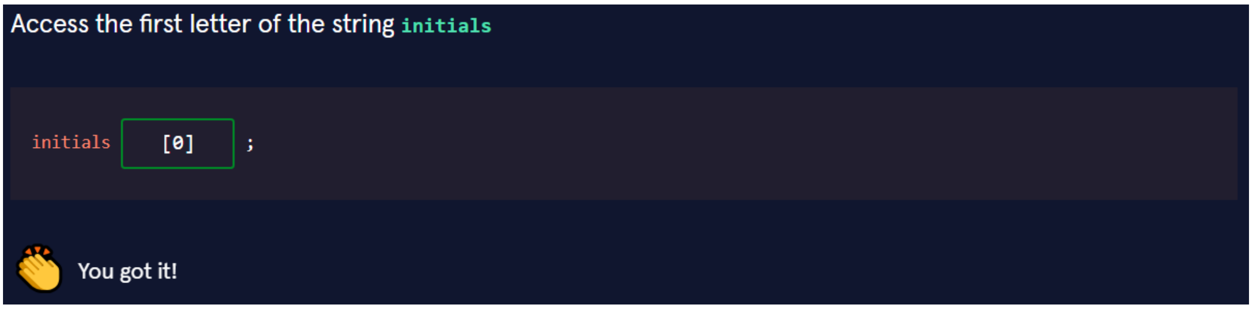
👏 Correct! This statement would throw an error because it only works with char and string.



Set the variable `hours` equal to `10`. Decrease the value of `hours` by 2 so that `hours` now equals `8`.

```
hours  =  10;

hours  -=  2;
```

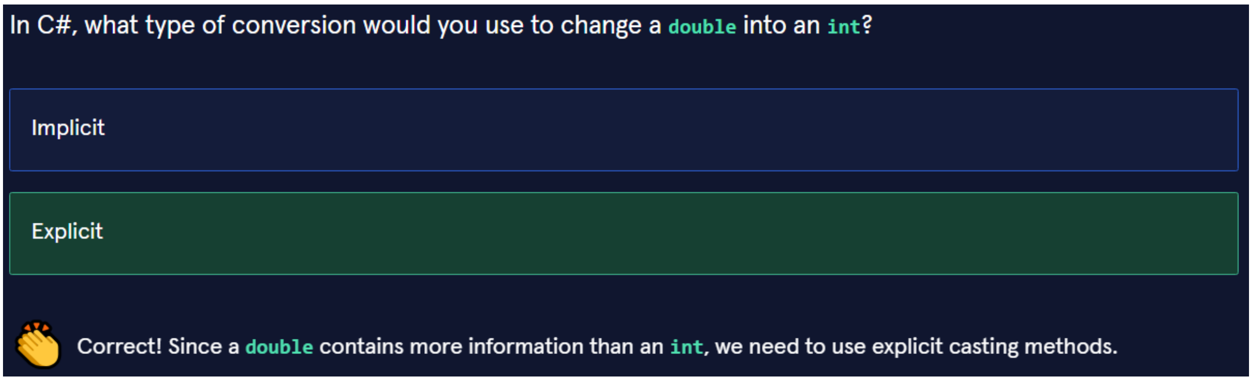
👏 You got it!



Access the first letter of the string `initials`

```
initials  [0]  ;
```

👏 You got it!

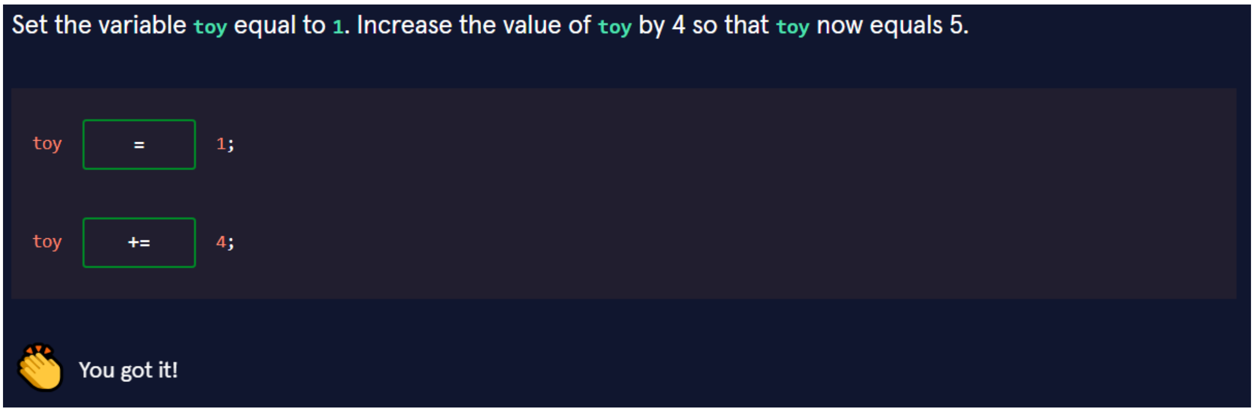


In C#, what type of conversion would you use to change a `double` into an `int`?

Implicit

Explicit

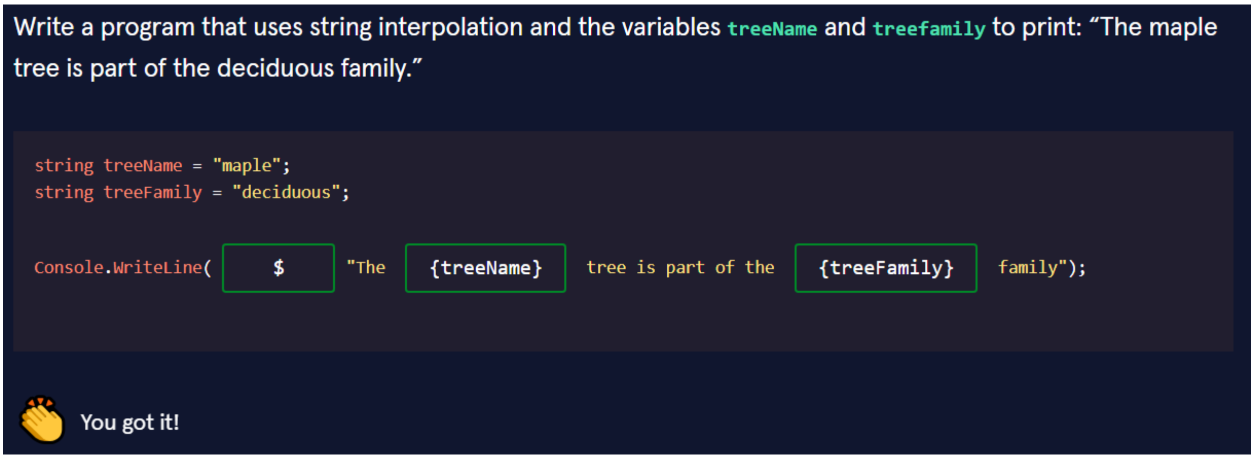
👏 Correct! Since a `double` contains more information than an `int`, we need to use explicit casting methods.



Set the variable `toy` equal to `1`. Increase the value of `toy` by 4 so that `toy` now equals 5.

```
toy  =  1;

toy  +=  4;
```

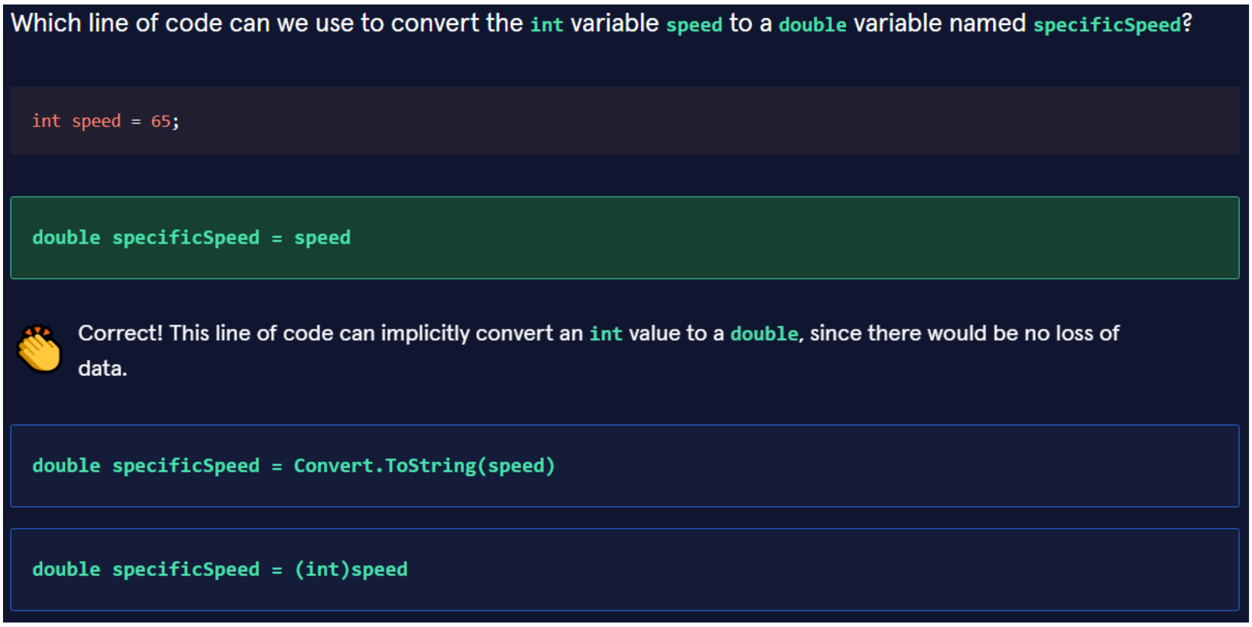
👏 You got it!



Write a program that uses string interpolation and the variables `treeName` and `treefamily` to print: "The maple tree is part of the deciduous family."

```
string treeName = "maple";
string treeFamily = "deciduous";

Console.WriteLine(  $   "The  {treeName}  tree is part of the  {treeFamily}  family");
```

👏 You got it!



Which line of code can we use to convert the `int` variable `speed` to a `double` variable named `specificSpeed`?

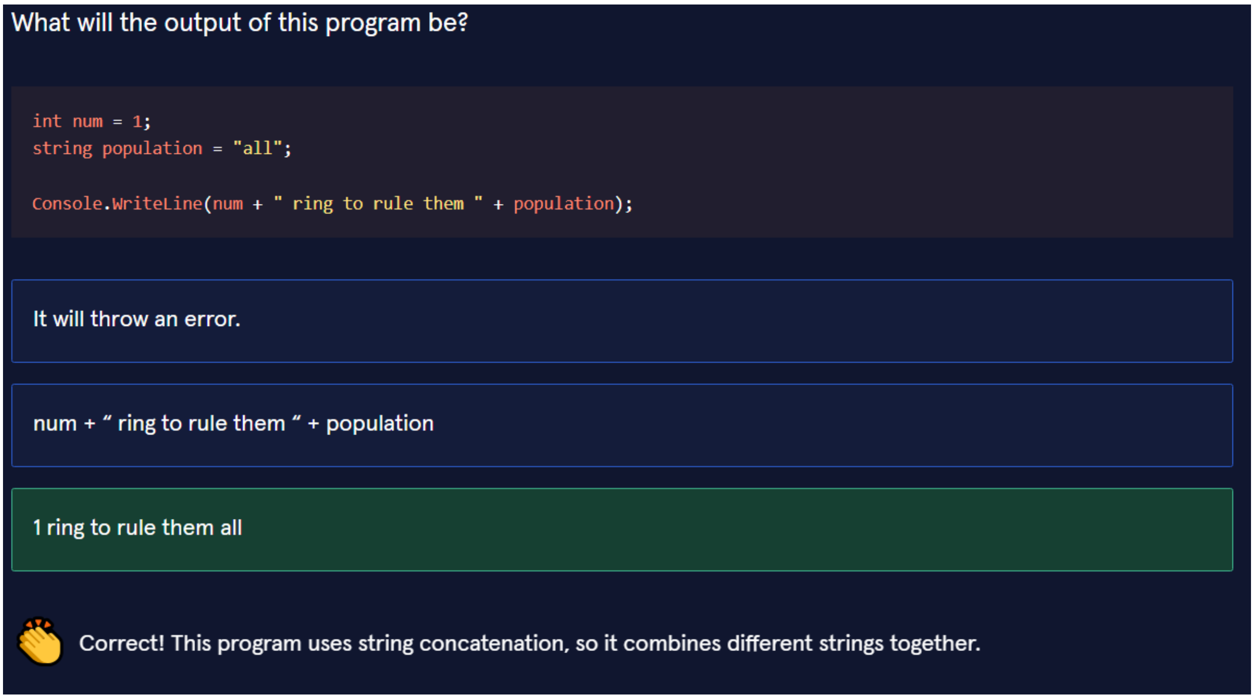
```
int speed = 65;
```

`double specificSpeed = speed`

👏 Correct! This line of code can implicitly convert an `int` value to a `double`, since there would be no loss of data.

`double specificSpeed = Convert.ToString(speed)`

`double specificSpeed = (int)speed`



What will the output of this program be?

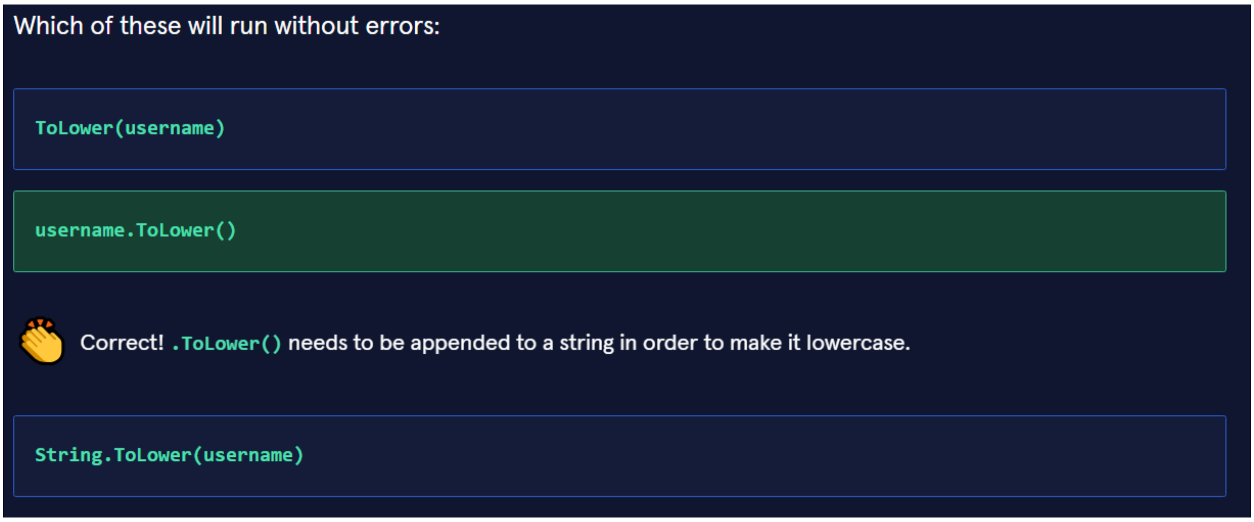
```
int num = 1;
string population = "all";

Console.WriteLine(num + " ring to rule them " + population);
```

It will throw an error.

num + " ring to rule them " + population

1 ring to rule them all

👏 Correct! This program uses string concatenation, so it combines different strings together.



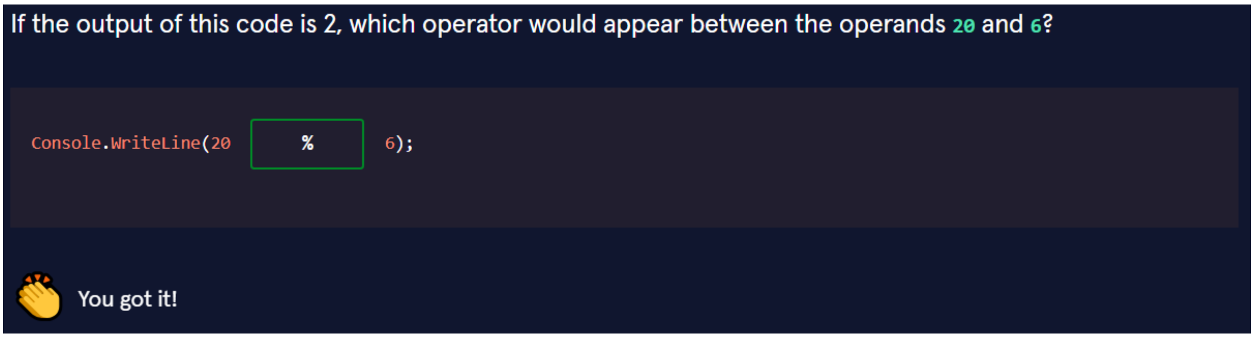
Which of these will run without errors:

```
ToLower(username)
```

```
username.ToLower()
```

👏 Correct! `.ToLower()` needs to be appended to a string in order to make it lowercase.

```
String.ToLower(username)
```



If the output of this code is 2, which operator would appear between the operands `20` and `6`?

```
Console.WriteLine(20  %  6);
```

👏 You got it!