

# foreach

<https://csci-1301.github.io/about#authors>

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## 1 Practicing foreach Loop

### 1.1 Problem 1

- Create a new project, and replace the content of the *main* method with the following code:

```
int[] primes = {2, 3, 5, 7, 11, 13, 17, 19}
for(int i = 0; i < primes.Length; i++)
{
    Console.WriteLine(primes[i]);
}
```

- Execute the code. You should see the elements of the array *primes* (the prime numbers less than 20) in the console.
- Rewrite the code with **foreach** statement. Try to code yourself. Then check your answer with the following answer.

```
int[] primes = {2, 3, 5, 7, 11, 13, 17, 19}
foreach(int n in primes)
{
    Console.WriteLine(n);
}
```

- Explain two differences between the above codes.
- Which one is easier to understand?
- Which one needs fewer variables?

## 1.2 Problem 2

- Can you rewrite the following code with `foreach` statement? Why?

```
double [] numbers = {1.2, 4.3, 5.7, 11, -3.13, 1.7}
```

```
for(int i = 0; i < numbers.Length; i++)  
{  
    numbers[i] = numbers[i] * 1.1;  
    Console.WriteLine(numbers[i]);  
}
```

## 1.3 problem 3