foreach

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# Practicing foreach Loop

## 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?

## 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]);  
}

## problem 3

* 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 - 1; i++)  
{   
 Console.WriteLine((numbers[i] + numbers[i+1] )/2);  
}