

SimpleWhileLoop



For Loops are a popular choice among Computer Programmers. They are simple to create and easy to read. However, there are times whenever a For Loop is not appropriate, especially when we enter a loop and are not sure when it will exit. In this instance, it is much better to create a While Loop.

First, let's look at how we would have used a For Loop to print the numbers 1-20.

NOTE: The Following code is a demonstration, and ***IS NOT*** part of your project. Therefore, do not simply copy this code and turn your project in. IT WILL NOT BE CORRECT! Directions for your project start on Page 2:

```
for (int number = 1; i <= 20; i++) {  
    Console.WriteLine(number);  
}
```

Now let's look at how you could do that with a While loop:

```
int number = 1  
While (number <= 20){  
    Console.WriteLine(number);  
    number++;  
}
```

While its a little bit more code, the program itself is almost just as simple.

First, we declared and initialized our variable:

```
int number = 1;
```

Then, we set our loop to iterate as long as its less than or equal to 20:

```
While (number <= 20){
```

Next, inside our loop (The word `Loop` should have been created automatically) we print our number:

```
Console.WriteLine(number);
```

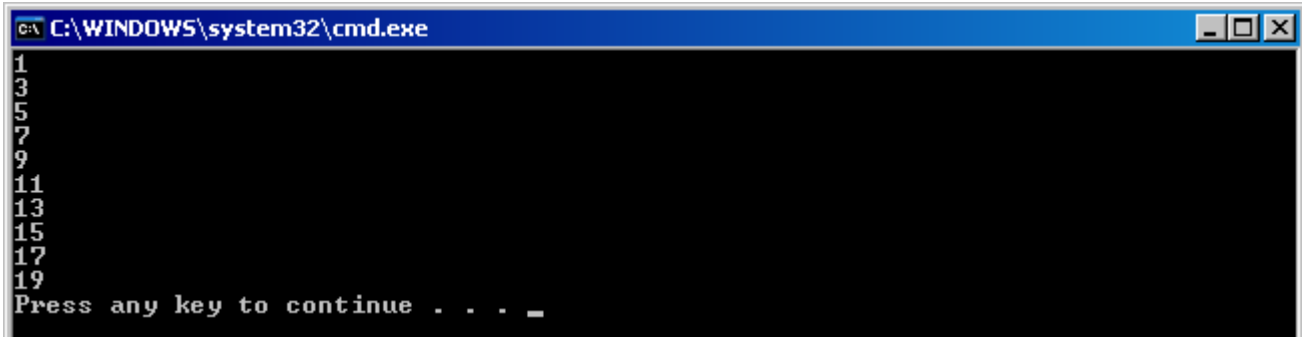
Finally, we increment our variable to add 1 to itself everytime it goes through the loop:

```
number++;
```

another way to write `number++` would be `number = number + 1`, or `number += 1`. While there is nothing wrong with these, the way we wrote it is shorter and more accepted.

Now it's your turn. Create a program called "SimpleWhileLoop", which uses a While Loop to print every odd number from 1 to 20.

Example:

A screenshot of a Windows command prompt window. The title bar is blue and contains the text "C:\WINDOWS\system32\cmd.exe". The command prompt area is black with white text. It displays the following output:

```
1
3
5
7
9
11
13
15
17
19
Press any key to continue . . . _
```

Save your program as "*SimpleWhileLoop*"