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October 4, 2021 (01:02:44 PM)

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# Do while Loops

Before writing code, think through the following problems:

* In your own words, what is the difference between while and do while loops?
* Can you think of a problem using while preferred over the do while loop? In all the problems in this section, use do while loop.

## Problem 1

Write a program that display numbers 0 to 50.

## Problem 2

Write a program that display numbers 30 to -20.

## Problem 3

Write a do while loop that generates this output: 1 10 100 1000 10000 100000 1000000

# while vs do while

Both of the following programs keep getting inputs from the user until the user enters a valid integer. Which one is better? Explain your answer.

int n;  
bool flag = false;  
do  
{  
 Console.Write("Enter an integer:");  
 flag = int.TryParse(Console.ReadLine(), out n);  
 if (!flag)  
 {  
 Console.WriteLine("The value you entered is not a valid integer. Try one more time.");  
 }  
} while (!flag);  
  
Console.WriteLine($"The number you entered is {n}");

int n;  
bool flag = false;  
  
Console.Write("Enter an integer:");  
flag = int.TryParse(Console.ReadLine(), out n);  
  
while(! flag)  
{  
 Console.WriteLine("The value you entered is not a valid integer. Try one more time.");  
 Console.Write("Enter an integer:");  
 flag = int.TryParse(Console.ReadLine(), out n);  
}   
  
Console.WriteLine($"The number you entered is {n}");