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1 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.

1.1 Problem 1

Write a program that display numbers 0 to 50.

1.2 Problem 2

Write a program that display numbers 30 to -20.

Console.WriteLine(\$"The number you entered is {n}");

1.3 Problem 3

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

2 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);
```

```
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}");
```