# Coding Techniques

## How many digits a number has?

1. Use Math.Log (number):

int count = (int) Math.log(nums[i]) + 1;

1. Create variable with value 10 (decimal) and mod the number with the value:

public int NumberOfDigits (int val)

{

int count = 1;

int mul = 10;

while(val % mul != val)

{

count++;

mul = mul \* 10;

}

return count;

}

## Convert a number from binary to integer?

1. Use Convert.ToInt32(binary\_number,2)

int num = Convert.ToInt32(BinaryValue, 2);

1. Binary Shift:

int num = 0;

num <<= 1;

num |= BinaryValue;

OR

int num = 0;

num = (num << 1) | BinaryValue;

## Split a number into individual digits (example 123 into 1 and 2 and 3):

int[] GetIntArray(int num)

{

List<int> listOfInts = new List<int>();

while(num > 0)

{

listOfInts.Add(num % 10);

num = num / 10;

}

listOfInts.Reverse();

return listOfInts.ToArray();

}