# Delegates practice – Filter

Create a delegate and functions that accept an integer value and return bool value and use them to filter the arrays in the following code:

int[] array = new int[] { 1, 2, 3, 5, 6, 11, 12, 13, 14, 22, 23, 33, 44, 55 };

int[] evenArray = GetFiltered(array, IsEven);

int[] notEvenArray = GetFiltered(array, IsNotEven);

int[] has3Array = GetFiltered(array, Has3);

int[] hasSameNumberArray = GetFiltered(array, HasSameNumberSequance);

//

System.Console.WriteLine("Original array items:");

Print(array);

System.Console.WriteLine("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.Console.WriteLine("Even array items:");

Print(evenArray);

System.Console.WriteLine("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.Console.WriteLine("Not even array items:");

Print(notEvenArray);

System.Console.WriteLine("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.Console.WriteLine("Has 3 array items:");

Print(has3Array);

System.Console.WriteLine("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.Console.WriteLine("Has same number array items:");

Print(hasSameNumberArray);

System.Console.WriteLine("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

The mentioned code should produce the following output:

A screenshot of a computer

Description automatically generated