# Practice lambda expressions – Filter

\*Use the following manual: [Lambda expressions - C# reference | Microsoft Docs](https://docs.microsoft.com/en-us/dotnet/csharp/language-reference/operators/lambda-expressions)

1. Create GetFiltered method that iterates threw the first array argument and use the second parameter to return a filtered array items.
2. Create Print method to prints all the array items separated by comma.
3. Replace the GetFiltered second null argument with lambda expression 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, null);

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

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

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

//

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