Section #6 – File Organization

Simple & better hash Function with C#

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApplication2
  class Program
    static int SimpleHash(string s, string[] arr)
       int index = 0;
       foreach (char c in s)
         index += (int)c;
       return index % (arr.Length - 1);
```

```
static int BetterHash(string s, string[] arr)
       int index = 0;
       foreach (char c in s)
          index = (index * 37) + (int)c;
       index %= arr.Length - 1;
       if (index < 0)
          index += arr.Length - 1;
       return index;
   static void Main(string[] args)
     string[] arr = { "apple", "banana", "cherry", "date", "elderberry", "fig", "grape" };
     string testString = "example";
     int simpleHashIndex = SimpleHash(testString, arr);
     int betterHashIndex = BetterHash(testString, arr);
     Console. WriteLine($"Simple hash index for \"{testString}\": {simpleHashIndex}");
     Console.WriteLine($"Better hash index for \"{testString}\": {betterHashIndex}");
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```