using System;

using System.IO;

public class ShowDirSize

{

    public static long DirSize(DirectoryInfo d)

    {

        long Size = 0;

        // Add file sizes.

        FileInfo[] fis = d.GetFiles();

        foreach (FileInfo fi in fis)

        {

            Size += fi.Length;

        }

        // Add subdirectory sizes.

        DirectoryInfo[] dis = d.GetDirectories();

        foreach (DirectoryInfo di in dis)

        {

            Size += DirSize(di);

        }

        return(Size);

    }

    public static void Main(string[] args)

    {

        if (args.Length != 1)

        {

            Console.WriteLine("You must provide a directory argument at the command line.");

        }

        else

        {

            DirectoryInfo d = new DirectoryInfo(args[0]);

            long dsize = DirSize(d);

            Console.WriteLine("The size of {0} and its subdirectories is {1} bytes.", d, dsize);

        }

    }

}