

Source Code

```
namespace SIIT_Lab5
{
    class f
    {
        const int number = 10;
        public double MakeAverage(int n)
        {
            int i = 0;
            List<double> mas = new List<double>();
            while (i < number)
            {
                mas.Add((double)FindCount(n));
                i++;
            }
            return mas.Average();
        }

        public int FindCount(int n)
        {
            Random rnd = new Random();
            int[] mas = new int[n];
            int[] genmas = new int[n];
            for (int i = 0; i < n; i++) mas[i] = rnd.Next(0, 2);
            int count = 0;
            while (!mas.SequenceEqual(genmas))
            {
                for (int i = 0; i < n; i++) genmas[i] = rnd.Next(0, 2);
                count++;
            }
            return count;
        }
    }
}

class Program
{
    static void Main(string[] args)
    {
        f obj = new f();
        int n = 2;
        List<double> avmas = new List<double>();
        while (n <= 20)
        {
            avmas.Add(obj.MakeAverage(n));
            Console.WriteLine("{0} : {1}", n, avmas.Last());
            n++;
        }
        StreamWriter wr = new StreamWriter(@"B:\All_study_stuff_are_here\4
course\СИИТ\SIIT_Lab5\file.txt");
        for (int i = 0; i < avmas.Count; i++)
            wr.WriteLine(avmas[i]);
        wr.WriteLine();
        for (int i = 2; i <= 20; i++)
            wr.WriteLine(i);
        wr.Dispose();
    }
}
}
```

