

## Github

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## Kuvakaappaukset ohjelmista

### Teht 1

```
Rivi [0] = 11  
Rivi [1] = 05  
Rivi [2] = 08  
Rivi [3] = 00  
Rivi [4] = 16  
Rivi [5] = 18  
Rivi [6] = 18  
Rivi [7] = 01  
Rivi [8] = 02  
Rivi [9] = 17
```

### Teht 2

```
[7][16] = 42  
[7][17] = 79  
[7][18] = 68  
[7][19] = 59  
[8][0] = 12  
[8][1] = 06  
[8][2] = 99  
[8][3] = 10  
[8][4] = 76  
[8][5] = 07  
[8][6] = 99  
[8][7] = 84  
[8][8] = 55  
[8][9] = 81  
[8][10] = 85  
[8][11] = 20  
[8][12] = 25  
[8][13] = 11  
[8][14] = 91  
[8][15] = 40  
[8][16] = 15  
[8][17] = 30  
[8][18] = 98  
[8][19] = 52  
[9][0] = 67  
[9][1] = 00  
[9][2] = 52  
[9][3] = 76  
[9][4] = 67  
[9][5] = 37  
[9][6] = 30  
[9][7] = 35  
[9][8] = 44  
[9][9] = 13  
[9][10] = 17  
[9][11] = 40  
[9][12] = 11  
[9][13] = 71  
[9][14] = 83  
[9][15] = 12  
[9][16] = 79  
[9][17] = 32  
[9][18] = 37  
[9][19] = 40
```

## Teht 3

	01	02	03	04	05	06	07	08	09	10
Taulukko1:	12	09	16	13	04	04	08	07	04	06
Taulukko2:	01	01	16	15	12	03	19	08	07	16
Taulukko3:	12	09	16	15	12	04	19	08	07	16

## Koodi

## Tehtävä 1

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Teht1
{
    class Program
    {
        static void Main(string[] args)
        {
            string[] taulukko = new string[10];
            int[] rivi = new int[10];
            int numero;
            Random rnd = new Random();

            for (int i = 0; i < taulukko.Length; i++)
            {
                numero = rnd.Next(0,20);
                if (numero < 10)
                {
                    taulukko[i] = numero.ToString("00");
                }
                else
                {
                    taulukko[i] = numero.ToString("");
                }
                rivi[i] = i;
            }

            for (int k = 0; k < 10; k++)
            {
                Console.WriteLine($"Rivi [{k}] = {taulukko[k]}");
            }
            Console.ReadKey();
        }
    }
}
```

## Tehtävä 2

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Teht2
{
    class Program
    {
        static void Main(string[] args)
        {
            string[,] taulukko = new string[10, 20];
            int numero;
            int i;
            int k;
            Random rnd = new Random();

            for (i = 0; i < 10; i++)
            {
                for (k = 0; k < 20; k++)
                {
                    numero = rnd.Next(0, 100);
                    if (numero < 10)
                    {
                        taulukko[i, k] = numero.ToString("00");
                    }
                    else
                    {
                        taulukko[i, k] = numero.ToString();
                    }
                }
            }

            for (i = 0; i < 10; i++)
            {
                for (k = 0; k < 20; k++)
                {
                    Console.WriteLine($"{i}[{k}] = {taulukko[i,k]}");
                }
            }
            Console.ReadKey();
        }
    }
}
```

## Tehtävä 3

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Teht3
{
    class Program
    {
        static void Main(string[] args)
        {
            string[] taulukko1 = new string[10];
            string[] taulukko2 = new string[10];
            string[] taulukko3 = new string[10];
            int numero;
            Random rnd = new Random();

            for (int i = 0; i < taulukko1.Length; i++)
            {
                numero = rnd.Next(0, 20);
                if (numero < 10)
                {
                    taulukko1[i] = numero.ToString("00");
                }
                else
                {
                    taulukko1[i] = numero.ToString("");
                }
            }

            for (int i = 0; i < taulukko2.Length; i++)
            {
                numero = rnd.Next(0, 20);
                if (numero < 10)
                {
                    taulukko2[i] = numero.ToString("00");
                }
                else
                {
                    taulukko2[i] = numero.ToString("");
                }
            }

            for (int i = 0; i < taulukko3.Length; i++)
            {
                int taulu1 = int.Parse(taulukko1[i]);
                int taulu2 = int.Parse(taulukko2[i]);
                if (taulu1 > taulu2)
                {
                    taulukko3[i] = taulukko1[i];
                }
                else
                {
                    taulukko3[i] = taulukko2[i];
                }
            }
        }
    }
}
```

```
    }  
    Console.WriteLine("          01 02 03 04 05 06 07 08 09 10");  
    Console.WriteLine("-----");  
    Console.WriteLine("Taulukko1: {0}", string.Join(" ", taulukko1));  
    Console.WriteLine("Taulukko2: {0}", string.Join(" ", taulukko2));  
    Console.WriteLine("Taulukko3: {0}", string.Join(" ", taulukko3));  
  
    Console.ReadKey();  
    }  
}  
}
```