using System;

class Program

{

static void Main()

{

Console.Write("Ievadiet vārdu: ");

string vards = Console.ReadLine();

Console.Write("Ievadiet uzvārdu: ");

string uzvards = Console.ReadLine();

int[,] tabula = TabulasDati(vards, uzvards);

TabulaGalva(vards);

Tabula(tabula);

Console.WriteLine("\nApgrieztā tabula:");

int[,] apgrieztaTabula = TabulasMaina(tabula);

TabulaGalva(uzvards);

Tabula(apgrieztaTabula);

}

static void TabulasLinija(int svitrinas, int reizes)

{

for (int i = 0; i < reizes; i++)

{

Console.Write("\*" + new string('-', svitrinas));

}

Console.WriteLine("\*");

}

static void TabulasRinda(int[] rinda, int max, int min, int sum)

{

Console.Write("|");

foreach (int skaitlis in rinda)

{

Console.Write($" {skaitlis} |");

}

Console.WriteLine($" {max} | {min} | {sum} |");

}

static int[,] TabulasDati(string vards, string uzvards)

{

int[,] dati = new int[uzvards.Length, vards.Length];

Random rand = new Random();

int min = vards.Length;

int max = vards.Length + uzvards.Length;

for (int i = 0; i < uzvards.Length; i++)

{

for (int j = 0; j < vards.Length; j++)

{

dati[i, j] = rand.Next(min, max + 1);

}

}

return dati;

}

static void TabulaGalva(string virsraksts)

{

int[] galva = new int[virsraksts.Length];

for (int i = 0; i < virsraksts.Length; i++)

{

galva[i] = i + 1;

}

int summa = virsraksts.Length \* (virsraksts.Length + 1) / 2;

TabulasLinija(3, virsraksts.Length);

TabulasRinda(galva, virsraksts.Length, 1, summa);

TabulasLinija(3, virsraksts.Length);

}

static void Tabula(int[,] tabula)

{

int rindas = tabula.GetLength(0);

int kolonas = tabula.GetLength(1);

for (int i = 0; i < rindas; i++)

{

int[] rinda = new int[kolonas];

int maks = 0;

int min = int.MaxValue;

int summa = 0;

for (int j = 0; j < kolonas; j++)

{

rinda[j] = tabula[i, j];

if (tabula[i, j] > maks) maks = tabula[i, j];

if (tabula[i, j] < min) min = tabula[i, j];

summa += tabula[i, j];

}

TabulasRinda(rinda, maks, min, summa);

TabulasLinija(3, kolonas);

}

}

static int[,] TabulasMaina(int[,] tabula)

{

int rindas = tabula.GetLength(0);

int kolonas = tabula.GetLength(1);

int[,] apgriezta = new int[kolonas, rindas];

for (int i = 0; i < rindas; i++)

{

for (int j = 0; j < kolonas; j++)

{

apgriezta[j, i] = tabula[i, j];

}

}

return apgriezta;

}

}