**שיעורי בית יסודות ריבוע קסם – אופיר הופמן י3**

public static int Mod(int x, int m)

{

return (x % m + m) % m;

}

public static void SolveMagicSqr(int[,] arr)

{

int row = 0;

int clmn = arr.GetLength(0) / 2;

arr[row, clmn] = 1;

int cnt = 2;

for (int i = 0; i < Math.Pow(arr.GetLength(1), 2)-1; i++)

{

if (arr[Mod(row - 1, arr.GetLength(0)), Mod(clmn + 1, arr.GetLength(0))] == 0)

{

row = Mod(row - 1, arr.GetLength(0));

clmn = Mod(clmn + 1, arr.GetLength(0));

arr[row, clmn] = cnt;

}

else

{

row = Mod(row + 1, arr.GetLength(0));

arr[row, clmn] = cnt;

}

cnt++;

}

}

static void Main(string[] args)

{

int[,] arr = new int[7, 7];

SolveMagicSqr(arr);

for (int i = 0; i < arr.GetLength(0); i++)

{

for (int j = 0; j < arr.GetLength(1); j++)

{

Console.Write(arr[i,j]/10 +""+ arr[i,j]%10 + ", ");

}

Console.WriteLine();

}

Console.WriteLine();

int[,] arr2 = new int[11, 11];

SolveMagicSqr(arr2);

for (int i = 0; i < arr2.GetLength(0); i++)

{

for (int j = 0; j < arr2.GetLength(1); j++)

{

Console.Write(arr2[i, j]/100 + "" + ((arr2[i, j]/10) - (arr2[i, j] / 100\*10) + "" + arr2[i, j]%10 + ", "));

}

Console.WriteLine();

}

}