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| This is an example about ***operator***keyword, you can use it for overload + - \* |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace maTrix  {  class matran  {  private int \_dong;  public int Dong  {  get { return \_dong; }  set { \_dong = value; }  }  private int \_cot;  public int Cot  {  get { return \_cot; }  set { \_cot = value; }  }  int[,] mt;  public matran(int d, int c)  {  Dong = d;  Cot = c;  mt = new int[Dong, Cot];  }  public void nhap()  {  for (int i = 0; i < Dong; i++)  {  for (int j = 0; j < Cot; j++)  {  nhaplai:  try  {  Console.Write("nhap vao phan tu thu a[{0}][{1}]:\t", i, j);  mt[i, j] = int.Parse(Console.ReadLine());  }  catch (Exception e)  {  Console.WriteLine("Loi :\t" + e.Message);  goto nhaplai;  }  }  }  }  public void xuat()  {  for (int i = 0; i < Dong; i++)  {  for (int j = 0; j < Cot; j++)  {  Console.Write("\t" + mt[i, j]);  }  Console.WriteLine();  }  }  public static matran operator +(matran a, matran b)  {  int dong = a.Dong;  int cot = a.Cot;  matran c = new matran(dong, cot);  for (int i = 0; i < dong; i++)  {  for (int j = 0; j < cot; j++)  {  c.mt[i, j] = a.mt[i, j] + b.mt[i, j];  }  }  return c;  }  public static matran operator -(matran a, matran b)  {  int dong = a.Dong;  int cot = a.Cot;  matran c = new matran(dong, cot);  for (int i = 0; i < dong; i++)  {  for (int j = 0; j < cot; j++)  {  c.mt[i, j] = a.mt[i, j] - b.mt[i, j];  }  }  return c;  }  public static matran operator \*(matran a, matran b)  {  int dong = a.Dong;  int cot = b.Cot;  matran c = new matran(dong, cot);  for (int i = 0; i < dong; i++)  for (int j = 0; j < cot; j++)  {  c.mt[i, j] = 0;  for (int k = 0; k < b.Dong; k++)  {  c.mt[i, j] += a.mt[i, k] \* b.mt[k, j];  }  }  return c;  }  public int this[int dong, int cot]  {  get  {  for (int i = 0; i < Dong; i++)  {  for (int j = 0; j < Cot; j++)  {  if (dong == i && cot == j)  return mt[i, j];  }  }  return -100;  }  }  }  class Program  {  static void Main(string[] args)  {  Console.Write("nhap vao dong ma tran a:\t");  int dong = int.Parse(Console.ReadLine());  Console.Write("nhap so cot cua ma tran a:\t");  int cot = int.Parse(Console.ReadLine());  matran a = new matran(dong, cot);  a.nhap();  a.xuat();  Console.Write("\n\nnhap vao dong ma tran b:\t");  dong = int.Parse(Console.ReadLine());  Console.Write("nhap so cot cua ma tran b:\t");  cot = int.Parse(Console.ReadLine());  matran b = new matran(dong, cot);  b.nhap();  b.xuat();  menu:  int chon;  Console.WriteLine("\n\n\t......Moi lan lam viec xong menu nay deu hien ra......\n\n");  Console.WriteLine(" 0 de thoat");  Console.WriteLine(" 1 xuat ma tran");  Console.WriteLine(" 2 tong hai ma tran");  Console.WriteLine(" 3 hieu hai ma tran");  Console.WriteLine(" 4 tich hai ma tran");  Console.WriteLine(" 5 tim he so theo chi muc");  Console.WriteLine("\n\n\t.....................................................\n\n");  try  {  Console.Write("nhap mot so trong menu:\t");  chon = int.Parse(Console.ReadLine());  if (chon < 0 || chon > 5)  goto menu;  }  catch (Exception e)  {  Console.WriteLine("\n\n Da co loi" + e.Message);  goto menu;  }  switch (chon)  {  case 0:  break;  case 1:  Console.WriteLine("\n\nma tran a");  a.xuat();  Console.WriteLine("\n\nma tran b");  b.xuat();  goto menu;  case 2:  if (a.Dong == b.Dong && a.Cot == b.Cot)  {  matran c = a + b;  Console.WriteLine("\n\n\ntong hai ma tran la");  c.xuat();  }  else  {  Console.WriteLine("\n\n\nhai ma tran nay khong cong duoc");  }  goto menu;  case 3:  if (a.Dong == b.Dong && a.Cot == b.Cot)  {  matran c = a - b;  Console.WriteLine("\n\n\ntong hai ma tran la");  c.xuat();  }  else  {  Console.WriteLine("\n\nhai ma tran nay khong tru duoc");  }  goto menu;  case 4:  if (a.Cot != b.Dong)  {  Console.WriteLine("\n\nkhong the thuc hien phep nhan hai ma tran");  }  else  {  Console.WriteLine("\n\ntich hai ma tran la:");  matran c = a \* b;  c.xuat();  }  goto menu;  case 5:  laimatrancantim:  Console.Write("nhap vao ma tran can tim theo chi muc (a hoac b):\t");  string mtcantim = Console.ReadLine();  if (mtcantim == "a")  {  laidongcottim:  Console.Write("nhap vao dong:\t");  int dd = int.Parse(Console.ReadLine());  Console.Write("nhap vao cot:\t");  int cc = int.Parse(Console.ReadLine());  if (dd > a.Dong || cc > a.Cot)  {  Console.WriteLine("khong duoc nhap so qua lon");  goto laidongcottim;  }  else  {  if (a[dd, cc] == -100)  {  Console.WriteLine("he so nay khong ton tai");  }  else  Console.WriteLine("\n\nGia tri tim duoc la:\t" + a[dd, cc]);  }  }  else if (mtcantim == "b")  {  laidongcottim:  Console.Write("nhap vao dong:\t");  int dd = int.Parse(Console.ReadLine());  Console.Write("nhap vao cot:\t");  int cc = int.Parse(Console.ReadLine());  if (dd > b.Dong || cc > b.Cot)  {  Console.WriteLine("khong duoc nhap so qua lon");  goto laidongcottim;  }  else  {  if (b[dd, cc] == -100)  {  Console.WriteLine("he so nay khong ton tai");  }  else  Console.WriteLine("\n\nGia tri tim duoc la:\t" + b[dd, cc]);  }  }  else  {  Console.WriteLine("khong co ma tran nay");  goto laimatrancantim;  }  goto menu;  default:  goto menu;  break;  }  Console.ReadLine();  }  }  } |