using System;

class Programm {

static void Main() {

String name1 = "Цех 1", name2 = "Цех 2", name3 = "Цех 3";

Workshop[] workshops = new Workshop[15];

workshops[0] = new Workshop(name1, 2010, 100);

workshops[1] = new Workshop(name2, 2011, 1100);

workshops[2] = new Workshop(name3, 2010, 800);

workshops[3] = new Workshop(name1, 2012, 90);

workshops[4] = new Workshop(name2, 2012, 1200);

workshops[5] = new Workshop(name3, 2012, 600);

workshops[6] = new Workshop(name1, 2013, 200);

workshops[7] = new Workshop(name2, 2013, 300);

workshops[8] = new Workshop(name3, 2013, 400);

workshops[9] = new Workshop(name1, 2015, 100);

workshops[10] = new Workshop(name2, 2015, 350);

workshops[11] = new Workshop(name3, 2015, 700);

workshops[12] = new Workshop(name1, 2017, 130);

workshops[13] = new Workshop(name2, 2017, 700);

workshops[14] = new Workshop(name3, 2017, 900);

Console.WriteLine("Суммарный объем выпуска образования " + name1 + ": " + workshops[0].getSumOfProduction(name1, workshops));

Console.WriteLine("Суммарный объем выпуска образования " + name2 + ": " + workshops[0].getSumOfProduction(name2, workshops)); Console.WriteLine("Суммарный объем выпуска образования " + name3 + ": " + workshops[0].getSumOfProduction(name3, workshops));

Console.WriteLine("Интенсивность производства по годам для образования " + workshops[0].getProductionByYear(name1, workshops)); Console.WriteLine("Интенсивность производства по годам для образования " + workshops[0].getProductionByYear(name2, workshops));

Console.WriteLine("Интенсивность производства по годам для образования " + workshops[0].getProductionByYear(name3, workshops));

}

}

class Workshop

{

private String Name;

private int Year; private int ValueOfProduction;

public Workshop(String Name, int Year, int ValueOfProduction){

this.Name = Name;

this.Year = Year;

this.ValueOfProduction = ValueOfProduction;

}

public String getName(Workshop workshop){

return workshop.Name;

}

public int getYear(Workshop workshop){

return workshop.Year;

}

public int getValueOfProduction(Workshop workshop){

return workshop.ValueOfProduction;

}

public void setName(Workshop workshop, String name){

workshop.Name = name;

}

public void setYear(Workshop workshop, int year){

workshop.Year = year;

}

public void setValueOfProduction(Workshop workshop, int valueOfProduction){

workshop.ValueOfProduction = valueOfProduction;

}

public int getSumOfProduction(String name, Workshop[] workshops){

int sum = 0;

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

if (workshops[i].getName(workshops[i]) == name){

sum = sum + workshops[i].getValueOfProduction(workshops[i]);

}

}

return sum;

}

public String getProductionByYear(String name, Workshop[] workshops){

String productionByYear = "" + name + ": \n";

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

if (workshops[i].getName(workshops[i]) == name){

productionByYear = productionByYear + workshops[i].getYear(workshops[i]) + ": " + workshops[i].getValueOfProduction(workshops[i]) + "\n";

}

}

return productionByYear;

}

}