第二章编程题

3.2

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace chapter2

{

class Program

{

static void Main(string[] args)

{

string[] a = new string[10];

int[] c = new int[10];

Console.WriteLine("请输入10个整数");

string b = Console.ReadLine();

a = b.Split(' ');//将数字字符串以空格划分为数组

for (int j = 0; j < 10; j++)

{

c[j] = Convert.ToInt32(a[j]);//字符串数组转换为整形数组

}

Array.Sort(c);//排序

int max = c[0], min = c[0];

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

{

if (c[i] > max)//最大值

{

max = c[i];

}

else if (c[i] < min)//最小值

{

min = c[i];

}

}

Console.WriteLine("最大值{0},最小值{1}", max, min);

}

}

}

3.4

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace chapter2\_4

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("请输入1到12之间的整数");

int a = int.Parse(Console.ReadLine());

if (a > 1 && a < 12 || a == 1 || a == 12)

{

switch (a)

{

case 1: Console.WriteLine("31天"); break;

case 2: Console.WriteLine("闰年29，平年28"); break;

case 3: Console.WriteLine("31天"); break;

case 4: Console.WriteLine("30天"); break;

case 5: Console.WriteLine("31天"); break;

case 6: Console.WriteLine("30天"); break;

case 7: Console.WriteLine("31天"); break;

case 8: Console.WriteLine("31天"); break;

case 9: Console.WriteLine("30天"); break;

case 10: Console.WriteLine("30天"); break;

case 11: Console.WriteLine("30天"); break;

case 12: Console.WriteLine("31天"); break;

}

}

else

{

Console.WriteLine("请重新输入");

a = int.Parse(Console.ReadLine());

switch (a)

{

case 1: Console.WriteLine("31天"); break;

case 2: Console.WriteLine("闰年29，平年28"); break;

case 3: Console.WriteLine("31天"); break;

case 4: Console.WriteLine("30天"); break;

case 5: Console.WriteLine("31天"); break;

case 6: Console.WriteLine("30天"); break;

case 7: Console.WriteLine("31天"); break;

case 8: Console.WriteLine("31天"); break;

case 9: Console.WriteLine("30天"); break;

case 10: Console.WriteLine("30天"); break;

case 11: Console.WriteLine("30天"); break;

case 12: Console.WriteLine("31天"); break;

}

}

}

}

}

3.7

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace chapter2\_7

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("请输入整数数组长度");

int len=Convert.ToInt32(Console.ReadLine());

int[] a = new int[len];

string[] b=new string[len];

Console.WriteLine("请输入整数数组的数据");

string s=Console.ReadLine();

b = s.Split(' ');

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

{

a[i] = int.Parse(b[i]);

}

Array.Sort(a);

int max, min;

decimal sum = 0,aver;

max = a[a.Length - 1];

min = a[0];

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

{

sum += a[i];

}

aver = sum / a.Length;

Console.WriteLine("最大值{0},最小值{1},平均数{2:0.00},总数{3}",max,min,aver,sum);

}

}

}

3.8

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace chapter2\_8

{

class Program

{

static void Main(string[] args)

{

int[] a = new int[12] { 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1 };

int j = 0, k = 0;

while (k!=11)//数组有11个0时停止循环，剩下的为最后一人

{

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

{

if (a[i] == 1)

{

j += 1;

while (j == 5)//五次循环

{

a[i] = 0;//喊5的赋值0

k += 1;

j = 0;//重置计数

}

}

}

}

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

{

if(a[i]==1)

Console.WriteLine("最后出局的是{0}号",i+1);//输出位置

}

}

}

}