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 二\_3.\_2

{

class Program

{

static void Main(string[] args)

{

//接受用户输入的10个整数，比较并输出最大值和最小值

int[] num = new int[10];

Console.WriteLine("请输入10个整数：");

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

{

string s = Console.ReadLine();

int m = int.Parse(s);

num[i] = m;

}

int max = num[0];

for (int i = 1; i < 10; i++)

{

if (max < num[i])

{

max = num[i];

}

}

Console.WriteLine("最大值是"+max);

int min = num[9];

for (int i = 0; i < 9; i++)

{

if (min > num[i])

{

min = num[i];

}

}

Console.WriteLine("最小值是"+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

二\_3.\_8

namespace

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("请输入人数： ");

String perNum = Console.ReadLine();

Console.WriteLine("请输入规定的数字：");

String number = Console.ReadLine();

int num = int.Parse(number);

Queue<int> pes = new Queue<int>();

for (int i = 1; i <= Convert.ToInt32(perNum); i++)

{

pes.Enqueue(i);

}

int flag = 1;

while (pes.Count >= 2)

{

if (flag == num)

{

Console.WriteLine("出队：{0}号" ,pes.Dequeue());

flag = 1;

}

else

{

pes.Enqueue(pes.Dequeue());

flag++;

}

}

Console.WriteLine("约瑟夫环结束，最后出队的是：{0}号", pes.Dequeue());

}

}

}