```
//------Item.cs---
using System;
using System.Collections.Generic;
using System.Ling;
using System. Text;
namespace MyClass
    abstract class Item : IComparable
        protected long invNumber; // инвентарный номер — целое число
       protected bool taken;
                              // хранит состояние объекта - взят ли на руки
       public Item(long invNumber, bool taken)
            this.invNumber = invNumber;
           this.taken = taken;
       public Item()
           this.taken = true;
       public bool IsAvailable() // истина, если этот предмет имеется в библиотеке
              if (taken == true)
                 return true;
              else
                 return false;
          }
      public long GetInvNumber() // инвентарный номер
             return invNumber;
      private void Take() // операция "взять"
               taken = false;
      abstract public void Return(); // операция "вернуть"
                // taken = true;
           //}
      public void TakeItem()
          if (this.IsAvailable())
              this.Take();
       public override string ToString()
          if (taken)
          return "Состояние хранения: Инвентарный номер: " + invNumber + ". В наличии";
               return "Состояние хранения: Инвентарный номер: " + invNumber + ". Нет в
               наличии";
       }
       int IComparable.CompareTo(object obj)
           Item it = (Item)obj;
           if (this.invNumber == it.invNumber) return 0;
          else if (this.invNumber > it.invNumber) return 1;
          else return -1;
       }
    }
```

```
-Program.cs --
using System;
using System.Collections.Generic;
using System.Ling;
using System. Threading. Tasks;
using System.Windows.Forms;
namespace ITMO.CSCourses2020.Syatc00M.Lab02.Ex6.BiblWorm
    static class Program
        /// <summary>
        /// Главная точка входа для приложения.
        /// </summary>
        [STAThread]
        static void Main()
            Application. Enable Visual Styles ();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form1());
    }
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
namespace MyClass
    interface IPubs
        void Subs();
       bool IfSubs { get; set;}
//----Form1-----
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System. Text;
using System. Threading. Tasks;
using System.Windows.Forms;
using MyClass;
namespace ITMO.CSCourses2020.Syatc00M.Lab02.Ex6.BiblWorm
    public partial class Form1 : Form
        public Form1()
            InitializeComponent();
            //List<Item> its = new List<Item>();
        List<Item> its = new List<Item>();
        public string Author //Author
            get { return textBox1.Text; }
            set { textBox1.Text = value; }
        }
```

```
public string Title //Название
    get { return textBox2.Text; }
    set { textBox2.Text = value; }
public string PublishHouse //Издательство
    get { return textBox3.Text; }
    set { textBox3.Text = value; }
public int Page
    get { return (int)numericUpDown1.Value; }
    set { numericUpDown1.Value = value; }
public int Year
    get { return (int)numericUpDown2.Value; }
    set { numericUpDown2.Value = value; }
public int InvNumber
    get { return (int)numericUpDown3.Value; }
    set { numericUpDown3.Value = value; }
public bool Existence
{
    get { return checkBox1.Checked; }
    set { checkBox1.Checked = value; }
public bool SortInvNumber
{
    get { return checkBox3.Checked; }
    set { checkBox3.Checked = value; }
public bool ReturnTime
    get { return checkBox2.Checked; }
    set { checkBox2.Checked = value; }
}
public int PeriodUse
    get { return (int)numericUpDown4.Value; }
    set { numericUpDown4.Value = value; }
private void button1 Click(object sender, EventArgs e)
    Book b = new Book (Author, Title, PublishHouse,
        Page, Year, InvNumber, Existence);
    if (ReturnTime)
       b.ReturnSrok();
    b.PriceBook(PeriodUse);
    its.Add(b);
   Author = Title = PublishHouse = "";
    Page = InvNumber = PeriodUse = 0;
    Year = 2000;
    Existence = ReturnTime = false;
}
private void button2 Click(object sender, EventArgs e)
    if (SortInvNumber)
        its.Sort();
```

```
StringBuilder sb = new StringBuilder();
            foreach (Item item in its)
                sb.Append("\n" + item.ToString());
            richTextBox1.Text = sb.ToString();
    }
//-----Book.cs---
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
namespace MyClass
    class Book : Item
        private String author;
        private String title;
        private String publisher;
        private int pages;
        private int year;
        private double cust;
        private bool returnSrok;
        private static double price = 9;
        static Book()
                            //статический конструктор
            price = 100;
        public Book (String author, String title, String publisher, int pages, int year)
        {
            this.author = author;
            this.title = title;
            this.publisher = publisher;
            this.pages = pages;
            this.year = year;
        }
        public Book(String author, String title, String publisher, int pages, int year, long
        invNumber, bool taken) : base (invNumber, taken)
        {
            this.author = author;
            this.title = title;
            this.publisher = publisher;
            this.pages = pages;
            this.year = year;
        }
        public Book(String author, String title)
            this.author = author;
            this.title = title;
        }
        public Book()
        { }
        public static void SetPrice(double price)
            Book.price = price;
```

```
public override string ToString()
    if (this.IsAvailable())
    return "\nКнига:\n Автор: " + author +"\n Название: " + title +
    "\n Год издания: " + year + "., " + pages + " стр. \n Стоимость аренды: " +
    Book.price + " p.\n" + base.ToString()
    + "\nИтого за чтение: " + cust + " p.";
    else
       return "\nКнига:\n Автор: " + author +"\n Название: " + title +
    "\n Год издания: " + year + "., " + pages + " стр. \n Стоимость аренды: " +
    Book.price + " p.\n" + base.ToString();
}
public void PriceBook(int s)
    if (this.returnSrok == true)
        this.cust = s * price;
    else this.cust = s * (price + price * 0.13); ;
public void ReturnSrok()
    returnSrok = true;
}
public override void Return() // операция "вернуть"
    if (returnSrok == true)
        taken = true;
        taken = false;
```