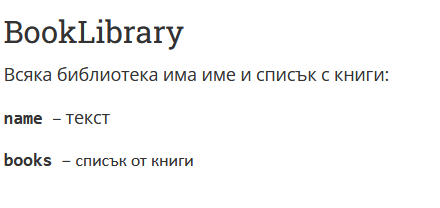
Картина, която съдържа текст

Описанието е генерирано автоматично

|  |
| --- |
| **Book.cs** |
| private string title;  private double rating;  public Book(string title, double rating)  {  //TODO: Добавете вашия код тук …  }  public string Title  {  //TODO: Добавете вашия код тук …  }  public double Rating  {  //TODO: Добавете вашия код тук …  }  public override string ToString()  {  //TODO: Добавете вашия код тук …  } |



|  |
| --- |
| **BookLibrary.cs** |
| private string name;  private List<Book> books;  public BookLibrary (string name)  {  //TODO: Добавете вашия код тук …  }  public string Name  {  //TODO: Добавете вашия код тук …  }  public List<Book> Books  {  //TODO: Добавете вашия код тук …  }  public void AddBook(string title, double rating)  {  //TODO: Добавете вашия код тук …  }  public double AverageRating()  {  //TODO: Добавете вашия код тук …  }  public List<string> GetBooksByRating(double rating)  {  //TODO: Добавете вашия код тук …  }  public List<Book> SortByTitle()  {  //TODO: Добавете вашия код тук …  }  public List<Book> SortByRating()  {  //TODO: Добавете вашия код тук …  }  public string[] ProvideInformationAboutAllBooks()  {  //TODO: Добавете вашия код тук …  }  public bool CheckBookIsInBookLibrary (string title)  {  //TODO: Добавете вашия код тук …  } |

|  |  |
| --- | --- |
| **Вход** | **Изход** |
| AddBook, TheMatrix, 8.6  AddBook, Parasite, 8.5  AddBook, GreenBook, 8.2  PrintBookLibraryInfo  END | Added book: TheMatrix -> 8.6.  Added book: Parasite -> 8.5.  Added book: GreenBook -> 8.2.  Book TheMatrix is with 8.6 rating.  Book Parasite is with 8.5 rating.  Book GreenBook is with 8.2 rating. |
| AddBook, Passengers, 7.0  AddBook, Star, 7.7  AddBook, Troy, 7.2  PrintBookLibraryInfo  SortByTitle  PrintBookLibraryInfo  SortByRating  PrintBookLibraryInfo  CheckBook, Troy  CheckBook, IT  AverageRating  GetBestBooksByRating, 7.1  END | Added book: Passengers -> 7.  Added book: Star -> 7.7.  Added book: Troy -> 7.2.  Book Passengers is with 7.0 rating.  Book Star is with 7.7 rating.  Book Troy is with 7.2 rating.  First book is: Passengers  Book Passengers is with 7.0 rating.  Book Star is with 7.7 rating.  Book Troy is with 7.2 rating.  The worst book is with rating: 7  Book Star is with 7.7 rating.  Book Troy is with 7.2 rating.  Book Passengers is with 7.0 rating.  Book Troy is available.  Book IT is not available.  Average rating of books: 7.3  Most rated books are: Star, Troy |

PROGRAM.CS

using System;

using System.Collections.Generic;

namespace Program

{

public class Program

{

static BookLibrary bookLibrary = new BookLibrary("BookLibrary");

static void Main(string[] args)

{

string line;

while ("END" != (line = Console.ReadLine()))

{

string[] cmdArgs = line.Split(", ");

switch (cmdArgs[0])

{

case "AddBook":

AddBook(cmdArgs[1], double.Parse(cmdArgs[2]));

break;

case "AverageRating":

AverageRating();

break;

case "GetBestBooksByRating":

GetBooksByRating(double.Parse(cmdArgs[1]));

break;

case "SortByTitle":

SortByTitle();

break;

case "SortByRating":

SortByRating();

break;

case "CheckBook":

CheckBookIsInBookLibrary(cmdArgs[1]);

break;

case "PrintBookLibraryInfo":

ProvideInformationAboutAllBooks();

break;

}

}

}

private static void ProvideInformationAboutAllBooks()

{

string[] info = bookLibrary.ProvideInformationAboutAllBooks();

foreach (string item in info)

{

Console.WriteLine(item);

}

}

private static void CheckBookIsInBookLibrary(string title)

{

if (bookLibrary.CheckBookIsInBookLibrary(title))

{

Console.WriteLine($"Book {title} is available.");

}

else

{

Console.WriteLine($"Book {title} is not available.");

}

}

private static void SortByRating()

{

bookLibrary.SortByRating();

Console.WriteLine("The worst book is with rating: " + bookLibrary.Books[bookLibrary.Books.Count - 1].Rating);

}

private static void SortByTitle()

{

bookLibrary.SortByTitle();

Console.WriteLine("First book is: " + bookLibrary.Books[0].Title);

}

private static void GetBooksByRating(double rating)

{

List<string> bestBooks = bookLibrary.GetBooksByRating(rating);

Console.WriteLine("Most rated books are: " + string.Join(", ", bestBooks));

}

private static void AverageRating()

{

double averageRating = bookLibrary.AverageRating();

Console.WriteLine($"Average rating of books: {averageRating:f1}");

}

private static void AddBook(string title, double rating)

{

bookLibrary.AddBook(title, rating);

Console.WriteLine($"Added book: {title} -> {rating}.");

}

}

}