import java.util.ArrayList;

import java.util.Scanner;

class Book {

String name;

String author;

public Book(String name, String author) {

this.name = name;

this.author = author;

}

}

public class LibraryManagementSystem {

static ArrayList<Book> books = new ArrayList<>();

public static void addBook() {

Scanner scanner = new Scanner(System.in);

System.out.println("请输入图书名称: ");

String bookName = scanner.nextLine();

System.out.println("请输入图书作者: ");

String author = scanner.nextLine();

Book book = new Book(bookName, author);

books.add(book);

System.out.println("图书添加成功!");

}

public static void searchBook() {

Scanner scanner = new Scanner(System.in);

System.out.println("请输入要查询的图书名称: ");

String searchKey = scanner.nextLine();

for (Book book : books) {

if (book.name.equals(searchKey)) {

System.out.println("图书名称: " + book.name + ", 作者: " + book.author);

return;

}

}

System.out.println("未找到该图书");

}

public static void deleteBook() {

Scanner scanner = new Scanner(System.in);

System.out.println("请输入要删除的图书名称: ");

String delKey = scanner.nextLine();

for (int i = 0; i < books.size(); i++) {

if (books.get(i).name.equals(delKey)) {

books.remove(i);

System.out.println("图书删除成功");

return;

}

}

System.out.println("未找到该图书，无法删除");

}

public static void main(String[] args) {

while (true) {

System.out.println("1. 添加图书");

System.out.println("2. 查询图书");

System.out.println("3. 删除图书");

System.out.println("4. 退出");

Scanner scanner = new Scanner(System.in);

String choice = scanner.nextLine();

if (choice.equals("1")) {

addBook();

} else if (choice.equals("2")) {

searchBook();

} else if (choice.equals("3")) {

deleteBook();

} else if (choice.equals("4")) {

break;

} else {

System.out.println("无效的选择，请重新输入");

}

}

}

}