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package assignments;
import java.util.Scanner;
public class BookDatabase {
   private String[] isbnArray;
    public BookDatabase(int size ) {
        isbnArray = new String[size];
    public boolean validateISBN(String isbn ) {
        if (isbn.length() != 10 && isbn.length() != 13 ) {
            return false;
        for (int i = 0; i < isbn.length(); i++) {</pre>
            if (!Character.isDigit(isbn.charAt(i)) && isbn.charAt(i) != '-' ) {
                return false;
        return true;
    public boolean searchISBN(String isbn) {
        for (String validISBN : isbnArray) {
           if (validISBN != null && validISBN.equals(isbn)) {
                return true;
        return false;
    public void addBook(String isbn) {
       for (int i = 0; i < isbnArray.length; i++) {</pre>
           if (isbnArray[i] == null) {
                isbnArray[i] = isbn;
                break;
    public void printAllISBNs() {
        for (String isbn : isbnArray) {
           if (isbn != null) {
                System.out.println(isbn);
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in );
        System.out.print("Enter the size of the database ");
        int size = scanner.nextInt() ;
        scanner.nextLine();
        BookDatabase database = new BookDatabase(size);
            System.out.print ("Enter ISBN to validate (or 'exit' to quit");
            String isbn = scanner.nextLine();
            if (isbn.equals("exit")) {
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break;
}
if (database.validateISBN(isbn)) {
    System.out.println("ISBN is valid.");
    if (!database. searchISBN(isbn)) {
        System.out.println("ISBN not found in database. Adding it...");
        database.addBook (isbn);
    }
} else {
    System.out.println("wrong ISBN");
}
System.out.println("wrong ISBN");
database.printAllISBNs();
scanner.close();
}
```