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package exam;

import java.util.Arrays;
import java.util.Collections;
import java.util.List;
import java.util.Scanner;
public class cloud
{
	public static void main(String[] args)
	{
		Scanner scanner = new Scanner(System.in);
		// Task 1: Create an array with values (1, 2, 3, 4, 5, 6, 7) and
shuffle it.
		Integer[] numbers = {1, 2, 3, 4, 5, 6, 7};
		List<Integer> numberList = Arrays.asList(numbers);
		Collections.shuffle(numberList);
		System.out.println("Shuffled Array: " +
Arrays.toString(numberList.toArray()));
		// Task 2: Enter a Roman Number as input and convert it to an
integer.

		System.out.print("Enter a Roman Numeral (e.g., IX): ");
		String romanNumeral = scanner.nextLine().toUpperCase();
		int intValue = romanToInteger(romanNumeral);
		System.out.println("Integer Value: " + intValue);
		// Task 3: Check if the input is a pangram or not.
		System.out.print("Enter a sentence to check if it's a pangram:
");
		String sentence = scanner.nextLine().toUpperCase();
		boolean isPangram = isPangram(sentence);
		if (isPangram)
		{
			System.out.println("The sentence is a pangram.");
		}
		else
		{
			System.out.println("The sentence is not a pangram.");
		}
			scanner.close();
	}
	public static int romanToInteger(String s)
	{
		int result = 0;
		for (int i = 0; i < s.length(); i++)
		{
			int currentVal = getValue(s.charAt(i));
		if (i < s.length() - 1)
		{
			int nextVal = getValue(s.charAt(i + 1));
			if (currentVal < nextVal)
			{
				result += nextVal - currentVal;
				i++;
			}
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                else
                {
                        result += currentVal;
                }
        }
        else
        {
                result += currentVal;
        }
    }
        return result;
}
public static int getValue(char romanChar)
{
        switch (romanChar)
        {
                case 'I':
                        return 1;
        case 'V':
            return 5;
        case 'X':
            return 10;
        case 'L':
            return 50;
        case 'C':
            return 100;
        case 'D':
            return 500;
        case 'M':
            return 1000;
        default:
            return 0;
     }
}
public static boolean isPangram(String s)
{
        boolean[] alphabet = new boolean[26];
    int totalChars = 0;
    for (int i = 0; i < s.length(); i++)
    {
        char c = s.charAt(i);
        if (Character.isLetter(c))
        {
                alphabet[c - 'A'] = true;
                totalChars++;
        }
    }
    for (boolean present : alphabet)
    {
        if (!present)
        {
                return false;
        }
    }
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            return totalChars >= 26;
        }
}
```