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SecretMessage.java

```
                decodedMessage += letter;
            }
        }

        System.out.println("Decoded Message: " + decodedMessage);
    }

    public static char decodeLetter(int number) {
        switch (number) {
            case 1:
                return 'D';
            case 2:
                return 'W';
            case 3:
                return 'E';
            case 4:
                return 'L';
            case 5:
                return 'H';
            case 6:
                return 'O';
            case 7:
                return 'R';
            default:
                return '*';
        }
    }
}

```

input

```
Enter 10 numbers to decode the secret message:
5 3 4 4 6 2 6 7 4 1
Decoded Message: HELLOWORLD


...Program finished with exit code 0
Press ENTER to exit console.
```

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SecretMessage.java

```java
import java.util.Scanner;

public class SecretMessage {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        String secretCode = "DWELHOR";
        String decodedMessage = "";

        System.out.println("Enter 10 numbers to decode the secret message:");
        for (int i = 0; i < 10; i++) {
            int number = scanner.nextInt();
            char letter = decodeLetter(number);
            if (letter == '*') {
                System.out.println("Invalid number. Please enter a valid number.");
                i--;
            } else {
                decodedMessage += letter;
            }
        }

        System.out.println("Decoded Message: " + decodedMessage);
    }

    public static char decodeLetter(int number) {
        switch (number) {
            case 1:
                return 'D';
            case 2:
                return 'W';
```

input

```
Enter 10 numbers to decode the secret message:
5 3 4 4 6 2 6 7 4 1
Decoded Message: HELLOWORLD


...Program finished with exit code 0
Press ENTER to exit console.
```

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SearchRoutine.java

```java
public class SearchRoutine {
    public static void main(String[] args) {
        String text = "This is a sample text";
        int index = 0;

        while (index < text.length()) {
            char currentChar = text.charAt(index);
            if (currentChar == ' ') {
                break;
            }
            System.out.print(currentChar);
            index++;
        }
    }
}
```

input

```
This

...Program finished with exit code 0
Press ENTER to exit console.
```

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DayOfWeekPrinter....

```java
public class DayOfWeekPrinter {
    public static void main(String[] args) {
        String[] daysOfWeek = {"Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday"
        int daysInYear = 365;
        int dayIndex = 0;

        for (int day = 1; day <= daysInYear; day++) {
            System.out.println("Day " + day + " of the year is: " + daysOfWeek[dayIndex]);
            dayIndex = (dayIndex + 1) % 7;
        }
    }
}
```

input

```
Day 1 of the year is: Sunday
Day 2 of the year is: Monday
Day 3 of the year is: Tuesday
Day 4 of the year is: Wednesday
Day 5 of the year is: Thursday
Day 6 of the year is: Friday
Day 7 of the year is: Saturday
Day 8 of the year is: Sunday
Day 9 of the year is: Monday
Day 10 of the year is: Tuesday
Day 11 of the year is: Wednesday
Day 12 of the year is: Thursday
Day 13 of the year is: Friday
Day 14 of the year is: Saturday
Day 15 of the year is: Sunday
Day 16 of the year is: Monday
Day 17 of the year is: Tuesday
Day 18 of the year is: Wednesday
Day 19 of the year is: Thursday
Day 20 of the year is: Friday
Day 21 of the year is: Saturday
Day 22 of the year is: Sunday
Day 23 of the year is: Monday
Day 24 of the year is: Tuesday
Day 25 of the year is: Wednesday
Day 26 of the year is: Thursday
Day 27 of the year is: Friday
Day 28 of the year is: Saturday
Day 29 of the year is: Sunday
Day 30 of the year is: Monday
Day 31 of the year is: Tuesday
Day 32 of the year is: Wednesday
Day 33 of the year is: Thursday
Day 34 of the year is: Friday
Day 35 of the year is: Saturday
Day 36 of the year is: Sunday
Day 37 of the year is: Monday
```

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AnagramChecker.j...

```java
import java.util.Arrays;

public class AnagramChecker {
    public static boolean checkIfAnagram(String str1, String str2) {
        String s1 = str1.replaceAll("[\\s\\p{Punct}]", "").toLowerCase();
        String s2 = str2.replaceAll("[\\s\\p{Punct}]", "").toLowerCase();

        char[] charArray1 = s1.toCharArray();
        char[] charArray2 = s2.toCharArray();

        Arrays.sort(charArray1);
        Arrays.sort(charArray2);

        return Arrays.equals(charArray1, charArray2);
    }

    public static void main(String[] args) {
        String word1 = "parliament";
        String word2 = "partial men";

        if (checkIfAnagram(word1, word2)) {
            System.out.println(word1 + " and " + word2 + " are anagrams.");
        } else {
            System.out.println(word1 + " and " + word2 + " are not anagrams.");
        }
    }
}
```

input

```
parliament and partial men are anagrams.


...Program finished with exit code 0
Press ENTER to exit console.
```