

```
1  import java.util.*;
2
3  public class RomanToInteger {
4      public static void main(String[] args) {
5          Scanner scanner = new Scanner(System.in);
6          System.out.print("Enter a Roman numeral: ");
7          String romanNumeral = scanner.nextLine();
8          int decimalValue = convertToInteger(romanNumeral);
9          System.out.println("Decimal value: " + decimalValue);
10         scanner.close();
11     }
12
13     public static int convertToInteger(String romanNumeral) {
14         Map<Character, Integer> romanMap = new HashMap<>();
15         romanMap.put('I', 1);
16         romanMap.put('V', 5);
17         romanMap.put('X', 10);
18         romanMap.put('L', 50);
19         romanMap.put('C', 100);
20         romanMap.put('D', 500);
21         romanMap.put('M', 1000);
22
23         int decimalValue = 0;
24         int previousValue = 0;
25
26         for (int i = romanNumeral.length() - 1; i ≥ 0; i--) {
27             char currentChar = romanNumeral.charAt(i);
28             int currentValue = romanMap.get(currentChar);
29             if (currentValue ≥ previousValue) {
30                 decimalValue += currentValue;
31             } else {
32                 decimalValue -= currentValue;
33             }
34             previousValue = currentValue;
35         }
36
37         return decimalValue;
38     }
39 }
```