Question Set 4: Simple Number Problems

Note: Concentrate on Naming Conventions, Readability and Reusability of Functions

1. Program to count the number of digits in a given integer number
2. Check if the given number is of even length or odd length
3. Find the sum of digits of a given integer
4. Find the sum of digits located in the odd positions of a given integer
5. Find the sum of digits located in the even positions of a given integer
6. Count the number of even digits in an Integer
7. Count the number of odd digits in an Integer
8. Find the sum of the odd digits of a given integer
9. Find the sum of the even digits of a given integer
10. Get the last digit of a given integer
11. Get the first digit of a given integer
12. Find if the first and last digits of a given integer are the same
13. Given an integer, find the digit with maximum value. (I/P: 1890, O/P: 9)
14. Given an integer find the location (1s, 10s, 100s, 1000s, etc.,) of the digit with maximum value. (I/P: 1890, O/P: 10s)
15. Given an integer find the digit with minimum value. (I/P: 1890, O/P: 0)
16. Given an integer find the location (1s, 10s, 100s, 1000s, etc.,) of the digit with minimum value. (I/P: 1890, O/P: 1s)
17. Reverse a given integer number N
18. Find the digital root of a given integer (Digital root means - keep adding and folding till it becomes a single digit)
19. Check if all digits of a given integer N divides N
20. Program to count how many digits of a given integer N are divisible by another positive integer K
21. Check if a given two or three digit positive integer is a palindrome or not
22. Check if the given positive long integer is palindrome or not
23. Find the maximum number that can be formed using the digits of a given integer N.
24. Find the minimum number that can be formed using the digits of a given integer N.