

Special Force Lab Assignment Two

Problem Statement 1:

You are given a positive integer n . Write a Java function that counts the number of digits in the number. However, **you are not allowed** to convert the number to a string, use any mathematical formula or log function, or use any inbuilt functions. The function should take the integer n as input and return the number of digits in the number.

Example output:

Input: 12345

Output: Number of digits: 5

Problem Statement 2:

You are given a positive integer n . Write a Java function that counts the number of even and odd digits in the number. However, **you are not allowed** to convert the number to a string, use any mathematical formula or log function, or use any inbuilt functions. The function should take the integer n as input and return the number of even and odd digits in the number.

Example output:

Input: 24689

Output: Number of even digits: 4, Number of odd digits: 1

Problem Statement 3:

You are given a positive integer n . Write a Java function that counts the sum of digits in the number. However, **you are not allowed** to convert the number to a string, use any mathematical formula or log function, or use any inbuilt functions. The function should take the integer n as input and return the sum of digits in the number.

Example output:

Input: 4567

Output: Sum of digits: 22

Problem Statement 4:

You are given a string s containing alphanumeric characters and special characters. Write a Java function that removes all the special characters from the string. The function should take the string as input and return the modified string.

Example Input: "He#llo \$Wo%rld!"

Example Output: "HelloWorld"

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Problem Statement 5:

You are given a string `s` containing spaces between words. Write a Java function that removes all the spaces from the string. The function should take the string as input and return the modified string

Example Input: "The quick brown fox"

Example Output: "Thequickbrownfox"