

Recursion in java

Assignment Questions



Q1 : Given an integer, find out the sum of its digits using recursion.

Input: n= 1234

Output: 10

Explanation: $1+2+3+4=10$

Q2: Given a number n. Find the sum of natural numbers till n but with alternate signs.

That means if $n = 5$ then you have to return $1-2+3-4+5 = 3$ as your answer.

Constraints : $0 \leq n \leq 1e6$

Input1 : n = 10

Output 1 : -5

Explanation : $1-2+3-4+5-6+7-8+9-10 = -5$

Input 2 : n = 5

Output 2 : 3

Q3: Print the max value of the array [13, 1, -3, 22, 5].

Q4 : Find the sum of the values of the array [92, 23, 15, -20, 10].

Q5. Given a number n. Print if it is an armstrong number or not. An armstrong number is a number if the sum of every digit in that number raised to the power of total digits in that number is equal to the number.

Example : $153 = 1^3 + 5^3 + 3^3 = 1 + 125 + 27 = 153$ hence 153 is an armstrong number. (Easy)

Input1 : 153

Output1 : Yes

Input 2 : 134

Output2 : No