Recursion in java

Assignment Questions

PW SKILLS

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<=n<=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