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// Mrs. Cooper

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// ICS 4UI Culminating Coding Challenges

// Day 1 - Ms. Martin's Lost Books

import java.util.Scanner;

public class Day1MsMartinsLostBooks {

public static void main(String[] args) {

// User Prompt

Scanner scan = new Scanner(System.in);

System.out.println("How many lockers does Ms. Martin have the time to check today?");

int search = scan.nextInt();

scan.close();

// Process the Stuffs

if(search<0)

System.out.println("Wooooahhh there buckaroo, that's a negative number.\nMs. Martin's degree has not prepared her to count negative lockers.");

else

{

int booksFound = lockerCheck(search);

System.out.println("Ms. Martin found " + booksFound + " books in the first " + search + " lockers.");

}

}

public static int lockerCheck(int call)

{

// BASE CASE: currently checking a locker that does not exist (i.e. locker 0: lockers go from 1 to "call")

if(call<=0)

return 0;

// RECURSIVE CASE: if the locker still exists, calculate and return the amount of books in the locker, plus the total of all the remaining lockers

else

{

int books = 0; // Create a counter for the number of books

// If the number is even

if(call%2 == 0)

books = 1;

// Else the number is odd

else

books = 2;

// If the number is divisible by 5

if(call%5 == 0)

books += 3;

return books + lockerCheck(call-1);

}

}

}