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import java.util.Scanner;

public class CreditCard {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Please input the 8-digit credit card number");
        int num = sc.nextInt();

        int i = 0;
        int sum = 0;
        for (i = 8; i >= 2; i = i - 2) {
            sum = sum + findIt(i, 8, num);
        }
        System.out.println(sum);

        int sum2 = 0;
        for (i = 7; i >= 1; i = i - 2) {
            int minisum = findIt(i, 8, num) * 2;
            if (minisum >= 10) {
                int miniminimum = findIt(1, 2, minisum) + findIt(2, 2, minisum);
                sum2 = sum2 + miniminimum;
            }
            else {
                sum2 = sum2 + minisum;
            }
        }
        System.out.println(sum2);

        int totsum = sum + sum2;
        if (totsum % 10 == 0) {
            System.out.println("Your credit card number is valid");
        }
        else {
            int fix = Math.abs(findIt(8, 8, num) - (totsum % 10));
            System.out.println("Your credit card number is invalid. The last digit in
your number should be " + fix);
        }
    }

    public static int findIt(int digit, int len, int num) {
        num /= Math.pow(10, len - digit);
        return num % 10;
    }
}

```