

4 Balanced numbers

2 points

Introduction

A natural number is balanced if the sum of the digits in even positions is equal to the sum of the digits in odd positions. Write a program that tells if a natural number is balanced or not

Input

The input of the program is a set of numbers, ending with a zero.

5225

12334

220

48659

917807

0

Output

The program must output whether each number is balanced or not.

5225 is a balanced number

12334 is not a balanced number

220 is a balanced number

48659 is not a balanced number

917807 is a balanced number

