Objectif

The existence of Lychrel number is an open mathematical problem.

Given a number N, repeat the process of reversing digits and adding the resulting number, until forming a palindrome.

If the process ends, the number is not a Lychrel number but for example, 196 is supposed to be a Lychrel number because the process seems not to end.

Entrée

N

Sortie

List of numbers "N N1 N2..." separated by space, resulted from this process until forming a palindrome

Contraintes

10 <= N < 10^9

10 <= highest number < 10^18

Exemple

Entrée	Sortie
10	10 11