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#### Statement

All numbers in this task are non-negative integers.

When refering to their digits, we are using their standard base-10 representations.

Given is a number d. Find any two numbers with a difference d and the same digit sum, or report that no such pair of

## Input format

numbers exists.

cases. The specified number of test cases follows, one after another.

Each test case consists of a single line containing a single

The first line of the input file contains the number t of test

number d.

# Output format For each test case output a single line containing either a

is no solution.

The numbers in your output may have up to 50 digits. (It is guaranteed that if a solution exists, there is one that fits into

pair of space-separated numbers x and y with the desired

properties, or the word "NONE" (quotes for clarity) if there

this limit comfortably.)

Subproblem N1 (16 points, public)

### Input file: N1.in

•  $t \le 200$ 

Constraints:

- ullet in each test case,  $1 \leq d \leq 1000$
- there is no test case with the answer "NONE"

### Input file: N2.in

Subproblem N2 (32 points, public)

• t < 200

Constraints:

- ullet in each test case,  $0 \le d \le 10^6$
- Subproblem N3 (52 points, secret)

#### Input file: N3.in

Constraints:

•  $t \le 200$ 

- \_
- Example

output

ullet in each test case,  $0 \le d \le 10^{18}$ 

#### input

order.

	3 45 47 57168		60 15 NONE 684528 741696	
Note that if a solution exists, the two numbers with a				

difference d and the same digit sum can be printed in either