

Round 1B 2016

A. Getting the Digits[B. Close Match](#)[C. Technobabble](#)[Contest Analysis](#)[Questions asked](#) **1**

Submissions

Getting the Digits

11pt	Not attempted 7826/9436 users correct (83%)
12pt	Not attempted 6839/7763 users correct (88%)

Close Match

10pt	Not attempted 2847/6107 users correct (47%)
23pt	Not attempted 938/1528 users correct (61%)

Technobabble

14pt	Not attempted 1558/4118 users correct (38%)
30pt	Not attempted 568/733 users correct (77%)

Top Scores

ikatanic	100
rng..58	100
Anta0	100
EgorKulikov	100
simonlindholm	100
Snuke	100
enot.1.10	100
zerokugi	100
mk.al13n	100
bmerry	100

Problem A. Getting the Digits

This contest is open for practice. You can try every problem as many times as you like, though we won't keep track of which problems you solve. Read the [Quick-Start Guide](#) to get started.

Small input
11 points

Solve A-small

Large input
12 points

Solve A-large

Problem

You just made a new friend at an international puzzle conference, and you asked for a way to keep in touch. You found the following note slipped under your hotel room door the next day:

"Salutations, new friend! I have replaced every digit of my phone number with its spelled-out uppercase English representation ("ZERO", "ONE", "TWO", "THREE", "FOUR", "FIVE", "SIX", "SEVEN", "EIGHT", "NINE" for the digits 0 through 9, in that order), and then reordered all of those letters in some way to produce a string **S**. It's up to you to use **S** to figure out how many digits are in my phone number and what those digits are, but I will tell you that my phone number consists of those digits in nondecreasing order. Give me a call... if you can!"

You would like to call your friend to tell him that this is an obnoxious way to give someone a phone number, but you need the phone number to do that! What is it?

Input

The first line of the input gives the number of test cases, **T**. **T** test cases follow. Each consists of one line with a string **S** of uppercase English letters.

Output

For each test case, output one line containing Case #x: y, where x is the test case number (starting from 1) and y is a string of digits: the phone number.

Limits

$1 \leq T \leq 100$.
A unique answer is guaranteed to exist.

Small dataset

$3 \leq \text{length of } S \leq 20$.

Large dataset

$3 \leq \text{length of } S \leq 2000$.

Sample

Input	Output
4	Case #1: 012
OZONETOWER	Case #2: 2468
WEIGHFOXTOURIST	Case #3: 114
OURNEONFOE	Case #4: 3
ETHER	

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