# 1 Ugly problem

### 1.1 Description

Everyone hate ugly problems.

You are given a positive integer. You must represent that number by sum of palindromic numbers.

A palindromic number is a positive integer such that if you write out that integer as a string in decimal without leading zeroes, the string is an palindrome. For examples, 1 is a palindromic number and 10 is not.

#### 1.2 Input

The input contains multiple test cases.

The first line contains an integer T, the number of test cases.

Then T lines follows. In each line, there's a positive integer  $s(1 \le s \le 10^{1000})$ .

## 1.3 Output

For each test case, output "Case #XXX:" on the first line where XXX is the number of that test case starting from 1. Then output the number of palindromic numbers you used, n, on one line. n must be no more than 50. Then output n lines, each containing one of your palindromic numbers. Their sum must be exactly s.

# 1.4 Sample

Sample Output
Case #1:
$\begin{bmatrix} 2 \\ 9 \end{bmatrix}$
9
Case #2:
2 9999999999999
1

#### 1.5 Hint

9 + 9 = 18