## H: Corrupted Gradebook Orange

A gradebook has been corrupted so that the columns have been removed. Each student's record simply contains a single string of digits. Knowing that the string of digits must have come from $n$ different assignments (each with a possible integer grade between 0 and 100 , inclusive), parse the string so that the average of the $n$ grades is maximized.

## Input

Input may consist of multiple cases, with each having a one line description. The line will contain an integer from 1 to 25 representing the number of grades. After some white space there will be a string of digits. This is the string to parse into the (optimal) original grades. The last case is followed by a line with two 0's (zeroes). There will be no leading 0 's in the string.

## Output

For each case, display the case number followed by the optimal average grade, rounded to the nearest integer. Format as in the sample.

## Sample Input

```
835
```

2100

1100
$0 \quad 0$

## Sample Output

Case 1: 44
Case 2: 5
Case 3: 100

