

## A. Binary Protocol

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Polycarp has just invented a new binary protocol for data transmission. He is encoding positive integer decimal number to binary string using following algorithm:

- Each digit is represented with number of '1' characters equal to the value of that digit (for 0 it is zero ones).
- Digits are written one by one in order corresponding to number and separated by single '0' character.

Though Polycarp learnt how to encode the numbers, he has no idea how to decode them back. Help him calculate the decoded number.

### Input

The first line contains one integer number  $n$  ( $1 \leq n \leq 89$ ) — length of the string  $s$ .

The second line contains string  $s$  — sequence of '0' and '1' characters, number in its encoded format. It is guaranteed that the number corresponding to the string is positive and doesn't exceed  $10^9$ . The string always starts with '1'.

### Output

Print the decoded number.

### Examples

<b>input</b>
3 111
<b>output</b>
3

  

<b>input</b>
9 110011101
<b>output</b>
2031