

## A. Matrix

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

You have a string of decimal digits  $s$ . Let's define  $b_{ij} = s_i \cdot s_j$ . Find in matrix  $b$  the number of such rectangles that the sum  $b_{ij}$  for all cells  $(i, j)$  that are the elements of the rectangle equals  $a$  in each rectangle.

A rectangle in a matrix is a group of four integers  $(x, y, z, t)$  ( $x \leq y, z \leq t$ ). The elements of the rectangle are all cells  $(i, j)$  such that  $x \leq i \leq y, z \leq j \leq t$ .

### Input

The first line contains integer  $a$  ( $0 \leq a \leq 10^9$ ), the second line contains a string of decimal integers  $s$  ( $1 \leq |s| \leq 4000$ ).

### Output

Print a single integer — the answer to a problem.

Please, do not write the `%lld` specifier to read or write 64-bit integers in C++. It is preferred to use the `cin`, `cout` streams or the `%I64d` specifier.

### Examples

input
10 12345
output
6

input
16 439873893693495623498263984765
output
40