CODE FORCES
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HOME   TOP   CONTESTS   GYM   **PROBLEMSET**   GROUPS   RATING   API   CALENDAR   HELP   **10 YEARS!** 🎁

PROBLEMS   SUBMIT   STATUS   STANDINGS   CUSTOM TEST

B. The number on the board

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Some natural number was written on the board. Its sum of digits was not less than k. But you were distracted a bit, and someone changed this number to n, replacing some digits with others. It's known that the length of the number didn't change.

You have to find the minimum number of digits in which these two numbers can differ.

Input
The first line contains integer k ($1 \le k \le 10^9$).

The second line contains integer n ($1 \le n < 10^{100000}$).

There are no leading zeros in n. It's guaranteed that this situation is possible.

Output
Print the minimum number of digits in which the initial number and n can differ.

Examples

input
```
3
11
```
Copy

output
```
1
```
Copy

input
```
3
99
```
Copy

output
```
0
```
Copy

Note
In the first example, the initial number could be 12.

In the second example the sum of the digits of n is not less than k. The initial number could be equal to n.

Codeforces Round #427 (Div. 2)
Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags

greedy   *1100

No tag edit access

→ Contest materials

- Announcement ✕
- Tutorial ✕

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