INTELLECT LTD

Engineers working for *Intellect Ltd.* have proposed an innovative system to check the transfer of digital data. Only n-digit decimal numbers divisible by 11 are used during transfer. The system was implemented on a remote space station transferring data to Earth. Eventually, the mission control center received a message containing (n+1) digits. The analysis indicated that the message had an extra spurious digit.

Write a program that will process the message and determine the number of ways to exclude a single digit so that the resulting number would be divisible by 11.

Limitations

 $1 \le n \le 100\,000$.

Input

The first line of the input file defines the message length n.

The second line contains a decimal number having n+1 digits representing the mes- sage with an extra digit.

Output

The number of ways to exclude a single digit as described above.

Example

Nº	stdin	stdout
1	3	2
	1352	
2	2	3
	222	