Problem K
Time Display Stickers
Time limit: 2 seconds

You have a collection of n digit stickers, represented by a string S of length n. Each character of S is a digit `0` through `9`, representing one sticker of that digit.

You want to create *time displays* using these stickers. Each time display shows a time in the format `HH:MM`, where:

- `HH` is a two-digit hour between 00 and 11 (inclusive), and
- `MM` is a two-digit minute between 00 and 59 (inclusive).

In other words, each time display requires exactly four stickers: two for the hours and two for the minutes. Each sticker can only be used for at most one time display.

What is the maximum number of time displays you can create?

Input

The first line of input contains one integer t ($1 \le t \le 10\,000$) representing the number of test cases. After that, t test cases follow. Each of them is presented as follows.

The first line of each test case contains an integer n ($1 \le n \le 10^6$).

The second line contains a string S of length n, consisting only of digits `0`–`9`.

The sum of n across all test cases in one input file does not exceed 10^6.

Output

For each test case, output the maximum number of time displays you can create.

Sample Input #1	Sample Output #1
4 10 0123456789 11 00123456789 8 99111111 4 1234	1 2 2 0

Explanation for the sample input/output #1

For the first test case, you can create one time display `10:59`. It can be shown that you cannot create two displays for a given collection of stickers.

For the second test case, you can create two time displays: `10:59` and `04:27`.

For the third test case, you can create two time displays: `11:19` and `11:19`.

For the fourth test case, you cannot create any time displays.