

Problem I

Birthday Substring

Time limit: 1 second
Memory: 1024 megabytes

Problem Description

As you know, *July 9, 2004*, is *Chau Nhat Tang's birthday*, so he will often mention his birthday to remind you that "*9/7/2004 is the birthday of a lovely and extremely cute angel!*" Now, Nhat Tang has a problem related to his birthday for you to solve. Firstly, He will give you a string **S** of length **N** consisting only of the digits **9**, **7**, **2**, **0**, and **4**, which are the digits in his birthday. Then, he requests you to perform the following operation: "If the string **S** contains the birthday substring '**972004**', delete that substring repeatedly until there are no more occurrences of '**972004**' in **S**." After deleting, you must inform Tang how many times you deleted the birthday substring '**972004**'.

Input:

- The first line contains an integer **N** (with $N \leq 10^7$).
- The next line contains the string **S**.

Output:

- A non-negative integer indicating the number of deletions.

Example:

| INPUT | OUTPUT |
|---------------------|--------|
| 13 9729720040044 | 2 |

Explain:

- Removal 1: 972'972004'0044 → 9720044
- Removal 2: '972004'4 → 4