

Ever Forever

Input file: **standard input**
Output file: **standard output**
Time limit: **1 second**
Memory limit: **1024 megabytes**

Be alive, take it. Promise to find, yes I will. Shining wings filled with wishes. — <euphoric field>



Emotional Flutter

In the tender years of her youth, Mizuki’s path intertwined with that of the spirited Yuuko in the shadow of the church’s towering spires. With each passing day spent in one another’s company, Yuuko’s vitality and her unwavering hope for the future seeped into the very core of Mizuki’s being, igniting a warmth she’d never known before. It was as if Yuuko had breathed life into the corners of Mizuki’s soul that had long lain dormant.

As the seasons turned and the years blurred into a distant memory, Mizuki found herself once again at that fateful crossroads—a place where the threads of fate had first been woven together. With a gentle hand that trembled ever so slightly, she laid down a delicate bouquet of flowers, their petals whispering tales of a past long gone. Each word Yuuko had spoken echoed through the corridors of Mizuki’s mind, a refrain that time could not erase. “Even when the cruelest of fates comes knocking, always face it with a smile,” those words had become Mizuki’s guiding star, leading her through the darkest of storms and the most desolate of nights.

Mizuki’s lips curved into a radiant smile, a smile that seemed to hold the weight of a thousand memories. Yet, her eyes told a different story. They were pools of liquid sorrow, brimming with tears that threatened to spill over at any moment, a silent testament to the pain and longing that still lingered in her heart. In that moment, the past and the present converged, and Mizuki seemed to revert to that lonely little girl once again. In front of the church, she ran with sobs, her tears flowing freely, yearning to embrace her elder sister Yuuko, the one who had been her unwavering support and had accompanied her through all the hesitant steps of her life up to this day.

Mizuki was given a string with length n , containing lowercase letters only. She wants to know the sum of distance between each letter ‘e’ and ‘f’, where the ‘e’ appears before the ‘f’. Formally, the summation Mizuki wants to calculate is as following:

$$\sum_{1 \leq i < j \leq n} [s_i = \text{'e'}] \times [s_j = \text{'f'}] \times (j - i)$$

Please recall that the calculation of Iverson Bracket:

$$[P] = \begin{cases} 0, & \text{if } P \text{ is false} \\ 1, & \text{otherwise} \end{cases}$$

Input

The first line contains one integers n ($1 \leq n \leq 5000$), denoting the length of string.

The second line contains a string with length n containing lowercase letters only.

Output

Output a single integer, denoting the sum of distance.

Examples

standard input	standard output
6 efefef	14
25 eternalfeathereverforever	68