Cute Numbers

Input File: *cutein.txt*
Output File: *cuteout.txt*

Time Limit: 1 second

For you, numbers have personalities. The number 4 is elegant, 18 is strong and 42 is enigmatic. And, of course, any number ending in 0 is cute.

The more zeroes at the end of a number, the cuter that number is. Therefore 70, 36 640 and 1 800 090 are only a little bit cute (ending in just one zero), whereas 400 and 99 200 are very cute (ending in two zeroes) and 30 000 is really really cute (ending in four zeroes).

Your task is to read in a number N and determine how many zeroes are at the end of that number, so you can tell just how cute the number is.

Input

The first line of input will consist of the single integer d, telling you how many digits are in the number N. You are guaranteed that $1 \leq d \leq 100\,000$.

Following this will be d additional lines, each containing a single digit (0, 1, 2, 3, 4, 5, 6, 7, 8 or 9). These will be the digits of N, written from left to right. You are guaranteed that the first digit of N will not be zero.

Output

You must write a single integer as output, representing the number of zeroes at the end of N.

Sample Input 1

```
5
9
9
2
0
0
```

Sample Output 1

```
2
```

Sample Input 2

```
7
1
8
0
0
0
9
0
```

Sample Output 2

```
1
```

Explanation

The first example describes $N = 99\,200$, which ends in two zeroes. The second example describes $N = 1\,800\,090$, which contains many zeroes within but has only one zero at the end.

Scoring

The score for each input file will be 100% if the correct answer is written to the output file and 0% otherwise.