Problem I: Three friends

Time limit: 1s; Memory limit: 256 MB

Three friends Larry, Curly and Moe are orphans, they have lived together since childhood. As adults, they are very successful even though they are not people with high IQ. It is explained that each person has a predestined index and if combined well, there will be good results. The life of three people with their achievements is always a multiple of 5. For example, the three of them have a total of 5 wives, 10 children, 15 houses, 5 companies, etc.

One day, on the occasion of meeting Everyone's face commented on that trait of the three. At that moment, Larry's eldest son Bobby gave a problem to all the children of the three friends as follows:

- How many triplets in n people whose total of predestined index numbers is same to total of predestined index numbers of Larry, Curly, and Moe. It means that, total of predestined index numbers of them must be divisible by 5.

Even though the children of the above friend have a smarter IQ than their father's generation, they still can't solve it. Please consider helping them.

Input

The first line of input contains a single integer n safety $1 \leq n \leq 10^5$ - the numbers of person need to check.

The next line contains n integers $a_1, a_2,\ldots, a_n$ safety $1 \leq a_i \leq 2 \times 10^6$ - the predestined index of n persons above.

Output

Print one integer: the numbers of triplets can be found.

Sample

Input	Output
5 3 4 2 3 4	3
4 3 6 9 12	0