

## 3 Sum

Input file: standard input  
Output file: standard output  
Time limit: 0.5 seconds  
Memory limit: 512 megabytes

Given  $n$  integers  $a_1, \dots, a_n$  and a modulus  $M = 10^K - 1$ . Find all tuples  $(i, j, k)$  ( $1 \leq i \leq j \leq k \leq N$ ), such that  $a_i + a_j + a_k \equiv 0 \pmod{M}$ .

### Input

The first line of the input contains two integers  $n$  and  $K$  ( $1 \leq n \leq 500$ ,  $1 \leq K \leq 2 \times 10^4$ ).

The  $i$ -th line of the next  $n$  lines contains a single integer  $a_i$ . It is guaranteed that  $0 \leq a_i < 10^{20\,000}$ .

### Output

Output a single line contains single integer, indicating the number of the tuples.

### Example

standard input	standard output
4 1 0 1 10 17	3