# 1569 Multiple

Write a program that, given a natural number N between 0 and 4999 (inclusively), and M distinct decimal digits  $X_1, X_2, \ldots, X_M$  (at least one), finds the smallest strictly positive multiple of N that has no other digits besides  $X_1, X_2, \ldots, X_M$  (if such a multiple exists).

### Input

The input file has several data sets separated by an empty line, each data set having the following format:

- $\bullet\,$  On the first line the number N
- $\bullet\,$  On the second line the number M
- On the following M lines the digits  $X_1, X_2, \ldots, X_M$ .

#### Output

For each data set, the program should write to standard output on a single line the multiple, if such a multiple exists, and '0' otherwise.

#### Sample Input

## Sample Output

110 0