Problem A
Alien Microwave
Time Limit: 1 Second

A standard microwave is operated by entering the cooking time as a string in the form of `hhmmss`, where `hh`, `mm`, and `ss` are two-digit integers less than 24, 60, and 60, respectively. Leading zeros in the string `hhmmss` are omitted. For example, the cooking time of 3 minutes is entered as `300`, though `0300` or `00300` is also accepted.

When any of `hh`, `mm`, or `ss` exceeds the limit, the microwave will not accept it as a valid cooking time and gives an error. For example, `75` is not accepted, nor is `240000`. Note that for the purpose of this problem, we assume that zero seconds of cooking time (represented by a sequence of zero or more `0`'s) is valid.

Sometimes, one might make a mistake by omitting a digit while entering the cooking time. For example, while entering `1030` (10 minutes and 30 seconds), omitting the digit `3` turns the input time into `100` (1 minute) instead. Omitting the digit `1` turns it into `030` (30 seconds). In this case, omitting any of the four digits will still make the resulting string a valid cooking time. However, some other strings, while valid cooking times themselves, can become invalid when *exactly* one of the digits is omitted. For example, `1700` (17 minutes) becomes invalid if either of the zeros is omitted. Such strings are called *Error-Prone* cooking times.

Now, imagine some extraterrestrial planet, on which a standard microwave is operated by a string in the form $a_1a_2a_3 \ldots a_n$, where each of a_1, a_2, $\ldots$, a_n is a two-digit non-negative integer (somehow they also use base 10) less than limits t_1, t_2, $\ldots$, t_n, respectively. The rules of valid and invalid cooking time still hold.

Given limits t_1, t_2, $\ldots$, t_n, find the number of *Error-Prone* cooking times. Note that leading zeros don't change the cooking time, so a time specification like `066` is the same as `66`, and should not be counted twice. Also note that 0 is a legitimate cooking time.

Input

The first line of input contains an integer n ($1 \leq n \leq 9$), which is the number of time types in the alien time scheme.

Each of the next n lines contains an integer t_i ($1 \leq t_i \leq 100$), which is the number of partitions in the i^{th} time type in the alien scheme.

Output

Output a single integer, which is the number of *Error-Prone* cooking times without leading zeros.

Sample Input 1	Sample Output 1
3 24 60 60	51840