

## 2701 Find the multiple

Given a positive integer  $n$ , write a program to find out a nonzero multiple  $m$  of  $n$  whose decimal representation contains only the digits 0 and 1. You may assume that  $n$  is not greater than 200 and there is a corresponding  $m$  containing no more than 100 decimal digits.

### Input

The input file may contain multiple test cases. Each line contains a value of  $n$  ( $1 \leq n \leq 200$ ). A line containing a zero (0) terminates the input.

### Output

For each value of  $n$  in the input print a line containing the corresponding value of  $m$ . The decimal representation of  $m$  must not contain more than 100 digits. If there are multiple solutions for a given value of  $n$ , any one of them is acceptable.

### Sample Input

```
2
6
19
0
```

### Sample Output

```
10
100100100100100100
111111111111111111
```