Special Multiple

You are given an integer *N*. Can you find the least positive integer *X* made up of only 9's and 0's, such that, X is a multiple of *N*?

Update

X is made up of one or more occurences of 9 and zero or more occurences of 0.

Input Format
The first line contains an integer T which denotes the number of test cases. T lines follow.
Each line contains the integer *N* for which the solution has to be found.

Output Format
Print the answer *X* to STDOUT corresponding to each test case. The output should not contain any leading zeroes.

Constraints
$1 <= T <= 10^4$
$1 <= N <= 500$

Sample Input

```
3
5
7
1
```

Sample Output

```
90
9009
9
```

Explanation
90 is the smallest number made up of 9's and 0's divisible by 5. Similarly, you can derive for other cases.

Timelimits Timelimits for this challenge is given here